

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 5, 2004, 16:22:11 ; Search time 41 Seconds

(without alignments)
1025.916 Million cell updates/sec

Title: US-09-990-726-223

Perfect score: 1409

Sequence: 1 MGLPGLFCLAVLAASSFSKA.....EFGFRIGNGEVRGKAAAM 265

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : A Genesepc_19Jun03.*

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24: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1409	100.0	265	21	Human PRO809 prote
2	1409	100.0	265	21	Membrane-bound pro
3	1409	100.0	265	22	Human PRO809 (UNQ4
4	1409	100.0	265	23	Human PRO protein,
5	1409	100.0	265	24	Novel human secret
6	1409	100.0	265	24	Human secreted/tra
7	1409	100.0	265	24	Novel human secret
8	1409	100.0	265	24	Human secreted/tra
9	1409	100.0	265	24	Human PRO polypept

10	1409	100.0	265	24	ABUS8960	Human secreted/tr
11	1409	100.0	265	24	ABU13920	Human PRO809 polyp
12	1409	100.0	265	24	ABU10875	Human PRO polypept
13	1149	81.5	247	22	AAG89176	Human secreted pro
14	725.5	51.5	232	22	AAM24472	Human EST encoded
15	654.5	46.5	235	24	ABJ19682	Human secreted pro
16	654.5	46.5	235	24	ABP99572	Human secreted pro
17	654.5	46.5	235	21	AB39216	Human secreted pro
18	636	45.1	175	22	AAU21256	Human novel foetal
19	114.5	8.1	759	22	AAAB82313	Human immunoglobul
20	110.5	7.8	977	22	AAAB82315	Human immunoglobul
21	105	7.5	508	22	AAAB82317	Human immunoglobul
22	101.5	7.2	343	20	AAV27129	Human bone marrow-
23	101.5	7.2	343	20	AAV27130	Human bone marrow-
24	101.5	7.2	343	21	AAV95966	Human bone marrow-
25	101.5	7.2	362	22	ABBI10224	Human TANGO 228.
26	101.5	7.2	362	22	ABBI18018	Human cDNA SEQ ID
27	101.5	7.2	362	23	ABP66811	Human polypeptide
28	101.5	7.2	366	22	AAV25703	Human protein sequ
29	101.5	7.2	385	23	ABG96265	Human immunoglobul
30	101	7.2	571	17	AA394894	CD31 fragment (dom
31	101	7.2	592	22	AAAB82314	Human immunoglobul
32	100	7.1	727	24	ABBA4668	Human SECP-20 prot
33	100	7.1	734	22	AAAB82316	Human immunoglobul
34	99.5	7.1	31267	24	ABG74786	Human RGS11 protei
35	98.5	7.0	222	23	ABP69283	Human polypeptide
36	98	7.0	738	12	AA13251	PECAM-1. Homo sap
37	98	7.0	738	18	AAW14802	PECAM-1. Homo sap
38	98	7.0	738	21	AAH07652	A platelet-endothe
39	98	7.0	738	22	AAAB65866	Human PECAM-1 prot
40	97.5	6.9	474	17	AA394893	CD31 fragment (dom
41	97.5	6.9	506	22	ABG10463	Novel human diagn
42	97.5	6.9	547	14	AA339741	ICAM-R (intercellu
43	97.5	6.9	547	19	AAW76118	Human ICAM-R prote
44	97.5	6.9	547	19	AAW71252	Human intercellula
45	97.5	6.9	547	19	AAW59005	Human ICAM-R prote
46	97.5	6.9	547	19	AAW44838	Human ICAM-4 prote
47	97.5	6.9	547	20	AAV00779	Human ICAM-R prote
48	97.5	6.9	547	20	AAW81440	Human intercellula
49	97.5	6.9	547	21	AA313036	Human ICAM-R prote
50	97.5	6.9	547	21	AAV82435	Human ICAM-R encod
51	97.5	6.9	547	21	AAV50743	Human ICAM-R prote
52	97.5	6.9	547	22	AAV50095	Human ICAM-R. Hom
53	97.5	6.9	547	23	AAU70928	Interleukin adhe
54	97	6.9	4391	24	AAE34390	Human perlecan pro
55	95.5	6.8	429	22	AAAB82318	Human immunoglobul
56	94	6.7	327	23	ABP63021	Human polypeptide
57	94	6.7	549	21	AAV58139	Lung cancer associ
58	93	6.6	319	18	AAW14146	Human A33 antigen.
59	93	6.6	319	20	AAV23323	Amino acid sequenc
60	93	6.6	319	22	AAV65863	Human A33 protein
61	93	6.6	336	23	ABP62881	Human polypeptide
62	93	6.6	793	23	AAE14781	Human immunoglobul
63	93	6.6	898	22	ABG12152	Novel human diagn
64	92.5	6.6	1700	23	ABH05044	Human NOV6 protein
65	91.5	6.5	301	23	ABR40465	Human secreted pro
66	91.5	6.5	303	23	ABP62033	Human secreted pro
67	91.5	6.5	304	20	AAV12934	Amino acid sequenc
68	91.5	6.5	318	18	AAW14158	Mouse A33 antigen.
69	91.5	6.5	480	22	AAU00501	Human TANGO 330 fo
70	91.5	6.5	985	20	AAV41716	Human PRO860 prote
71	91.5	6.5	985	21	AAAB44272	Human PRO860 (UNQ4
72	91.5	6.5	985	24	ABU61102	Human PRO860 polyp
73	91.5	6.5	1007	23	ABP97310	Novel human protei
74	91.5	6.5	1104	23	AAU99419	Human ECSW4 protei
75	91	6.5	4393	22	AAAB31889	Amino acid sequenc
76	91	6.5	4436	22	ABG23265	Novel human diagn
77	90.5	6.4	562	10	AAV80458	Sequence of human
78	90.5	6.4	562	24	ABU04062	Human expressed pr
79	90.5	6.4	1256	22	AAAB84865	Murine nephrin pro
80	90.5	6.4	1618	22	AAV59829	Protein #6 encoded
81	90	6.4	370	23	AAE23555	Human FAIL protein
82	90	6.4	892	24	ABP96857	Escherichia coli X

83 89.5 6.4 868 22 ABB63905 Drosophila melanog
84 89.5 6.4 1263 23 ABP69461 Human polypeptide
85 89.5 6.4 1694 22 AAE09449 Human sbg24878S1a
86 89.5 6.4 1709 22 AAE09448 Human sbg24878S1a
87 89.5 6.4 1839 22 ABG10466 Novel human diagno
88 89 6.3 370 23 AAE23556 Human FAIL protein
89 88.5 6.3 370 23 AAE23553 Human FAIL protein
90 88.5 6.3 395 22 AAE06611 Human protein havi
91 88.5 6.3 917 18 AAU00930 Rat ICAM-4. Rattu
92 88.5 6.3 917 19 AAU00160 Rat intercellular
93 88.5 6.3 917 19 AAU59003 Rat ICAM-4 protein
94 88.5 6.3 917 19 AAU44836 Rat ICAM-4 protein
95 88.5 6.3 917 20 AAU05485 Rat ICAM-4 protein
96 88.5 6.3 917 20 AAU073512 Rat ICAM-4 protein
97 88.5 6.3 3931 24 AAU07377 Human protein NOV9
98 88 6.2 343 23 AAE23546 Human mature FAIL
99 88 6.2 370 23 AAE23544 Human FAIL protein
100 88 6.2 370 23 AAE23554 Human FAIL protein
101 88 6.2 757 19 AAU60486 Mouse TRIDENT tran
102 87.5 6.2 333 21 AAB12313 Human secreted pro
103 87.5 6.2 532 18 AAU27270 Human intracellular
104 87.5 6.2 532 24 AAU04077 Human expressed pr
105 87.5 6.2 792 22 AAU95515 Human protein sequ
106 87.5 6.2 792 22 AAG67430 Amino acid sequenc
107 87 6.2 822 23 AAU47865 Human ICAM-1/IgA2m
108 87 6.2 5635 23 ABP60991 Novel human protei
109 86.5 6.1 532 16 AAR79457 ICAM-1. Homo sapi
110 86.5 6.1 532 24 AAU04069 Human expressed pr
111 86 6.1 264 22 ABB10330 Human cDNA SEQ ID
112 86 6.1 264 23 ABE66917 Human polypeptide
113 86 6.1 2367 24 ABR38872 Human mCR32 # SEQ
114 85.5 6.1 364 8 AAP70310 Sequence of porcine
115 85.5 6.1 364 8 AAP70199 Sequence of porcine
116 85.5 6.1 378 22 AAB51347 Bovine HSV-glycopro
117 85.5 6.1 4495 24 AAU69135 Human NOVX polypep
118 85 6.0 398 24 ABG75600 Anti-angiogenic pe
119 85 6.0 405 15 AAR57140 Mouse mucosal addr
120 85 6.0 405 15 AAU60615 Mouse mucosal adre
121 85 6.0 408 22 ABG10611 Novel human diagno
122 85 6.0 518 20 AAU25966 Gorilla ICAM-3 pro
123 85 6.0 753 20 AAU83927 Human T85 protein.
124 85 6.0 753 24 AAU04090 Human expressed pr
125 85 6.0 848 21 AAB88565 Human NCAM 140kd i
126 85 6.0 848 23 AAE17222 Human 140kd NCAM i
127 85 6.0 1179 23 ABE97578 Novel human protei
128 84.5 6.0 278 23 AAE23547 Human FAIL extrac
129 84.5 6.0 305 23 AAE23557 Human FAIL protein
130 84.5 6.0 451 21 AAB58141 Lung cancer associ
131 84.5 6.0 451 24 AAU04061 Soluble intercellu
132 84.5 6.0 480 11 AAR06240 Human expressed pr
133 84.5 6.0 480 24 AAU04064 Human ICAM-1 regio
134 84.5 6.0 481 21 AAU94407 Human expressed pr
135 84.5 6.0 481 24 AAU04083 Human expressed pr
136 84.5 6.0 508 18 AAU14721 Human ICAM-1 (del4
137 84.5 6.0 508 24 AAU04076 Human expressed pr
138 84.5 6.0 532 10 AAU91357 Inter-cellular adhe
139 84.5 6.0 532 11 AAR04165 Inter-cellular adh
140 84.5 6.0 532 13 AAR20809 Inter-cellular Adhe
141 84.5 6.0 532 14 AAR35071 ICAM-1. Homo sapi
142 84.5 6.0 532 15 AAR46066 Human ICAM-1. Hom
143 84.5 6.0 532 15 AAE58779 Inter-cellular adh
144 84.5 6.0 532 17 AAU91437 Human ICAM-1. Hom
145 84.5 6.0 532 17 AAR90294 Inter-cellular adhe
146 84.5 6.0 532 18 AAU14720 Human ICAM-1. Hom
147 84.5 6.0 532 18 AAU09313 Human ICAM-1 (enco
148 84.5 6.0 532 19 AAU80446 Human intracellular
149 84.5 6.0 532 19 AAU70871 Intracellular adhe
150 84.5 6.0 532 19 AAU71263 Human intercellula

ALIGNMENTS

RESULT 1
AAB24063
ID AAB24063 standard; Protein; 265 AA.
XX AC AAB24063;
XX DT 29-JAN-2001 (first entry)
XX DE Human PRO809 protein sequence SEQ ID NO:23.
XX KW Human; tumour; diagnosis; neoplastic disease; neoplastic cell growth;
KW proliferation; tumorigenesis; identification; cancer; cytostatic;
KW neutropic; neuroprotective; antiinflammatory; immunosuppressive;
KW immunostimulant; antiangiogenic; leukaemia; lymphoid malignancy;
KW neuronal disorder; gliial disorder; astrocytal disorder; angiogenic;
KW hypothalamic disorder; glandular disorder; macrophagal disorder;
KW epithelial disorder; stromal disorder; blastocoeic disorder;
KW inflammatory disorder; immunologic disorder.
XX OS Homo sapiens.
XX PN WO200053755-A2.
XX PD 14-SEP-2000.
XX PF 06-JAN-2000; 2000WO-US00376.
XX PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 23-JUN-1999; 99US-0141037.
PR 07-JUL-1999; 99US-0143046.
PR 26-JUL-1999; 99US-0145696.
PR 30-NOV-1999; 99WO-US28313.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
XX (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;
PI Watanabe CK, Wood WI;
XX WPI; 2000-572270/53.
XX N-PSDB; AAC58373.
XX PT Thirty PRO polynucleotides encoding PRO polypeptides, useful in the
XX treatment, diagnosis and prevention of cancer -
XX Claim 61; Fig 14; 286pp; English.
XX The present invention describes an isolated antibody that binds to
XX one of the human PRO proteins designated PRO212, PRO290, PRO341, PRO535,
XX PRO619, PRO717, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009,
XX PRO1025, PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184,
XX PRO1187, PRO1281, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094,
XX PRO2145 OR PRO2198. PRO antagonists can be used to inhibit tumour cell
XX growth. The PRO polypeptides and nucleotides are useful in the
XX treatment, diagnosis and prevention of cancer. The antibodies and other
XX anti-tumour compounds maybe used to treat various conditions, including
XX those characterised by overexpression and/or activation of the amplified
XX PRO genes. Exemplary conditions or disorders to be treated with such
XX antibodies and other compounds include benign or malignant tumours
XX (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian,
XX colorectal, prostate, pancreatic, lung, vulva, thyroid, hepatic
XX carcinomas, sarcomas, glioblastomas, and various head and neck tumours),
XX leukaemias and lymphoid malignancies, other disorders such as neuronal,
XX gliial, astrocytal, hypothalamic and other glandular, macrophagal,
XX epithelial, stromal and blastocoeic disorders, and inflammatory,
XX angiogenic and immunologic disorders. AAC58242 to AAC58366 represent PCR
XX primers and hybridisation probes used in the isolation of the human PRO
XX sequences. AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human
XX PRO polynucleotide and protein sequences given in the exemplification of
XX the present invention.

RESULT 2	
AAAY66691	
ID	AAAY66691 standard; protein; 265 AA.
XX	AC
XX	AAAY66691;
XX	XX
DT	05-APR-2000 (first entry)
XX	XX
DE	Membrane-bound protein PRO809.
XX	XX
XX	Membrane-bound polypeptide; PRO polypep
KW	pharmaceutical; receptor immunoadhesin
XX	XX
OS	Homo sapiens.
XX	XX
PN	WO9963088-A2.
XX	XX
PD	09-DEC-1999.
XX	XX
PF	02-JUN-1999; 99WO-US12252.
XX	XX
PR	02-JUN-1998; 98US-0087607.
PR	02-JUN-1998; 98US-0087609.
PR	02-JUN-1998; 98US-0087759.
PR	03-JUN-1998; 98US-0087827.
PR	03-JUN-1998; 98US-0088021.
PR	04-JUN-1998; 98US-0088025.
PR	04-JUN-1998; 98US-0088028.
PR	04-JUN-1998; 98US-0088029.
PR	04-JUN-1998; 98US-0088030.
PR	04-JUN-1998; 98US-0088033.
PR	04-JUN-1998; 98US-0088326.
PR	05-JUN-1998; 98US-0088167.
PR	05-JUN-1998; 98US-0088202.
PR	05-JUN-1998; 98US-0088212.
PR	05-JUN-1998; 98US-0088217.
PR	09-JUN-1998; 98US-0088655.
PR	10-JUN-1998; 98US-0088722.
PR	10-JUN-1998; 98US-0088730.
PR	10-JUN-1998; 98US-0088734.
PR	10-JUN-1998; 98US-0088738.
PR	10-JUN-1998; 98US-0088740.
PR	10-JUN-1998; 98US-0088741.
PR	10-JUN-1998; 98US-0088742.
PR	10-JUN-1998; 98US-0088810.
PR	10-JUN-1998; 98US-0088811.

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PR 04-AUG-1998; 98US-0095325.
PR 10-AUG-1998; 98US-0095916.
PR 10-AUG-1998; 98US-0095929.
PR 10-AUG-1998; 98US-0096012.
PR 11-AUG-1998; 98US-0096143.
PR 11-AUG-1998; 98US-0096146.
PR 12-AUG-1998; 98US-0096329.
PR 17-AUG-1998; 98US-0096757.
PR 17-AUG-1998; 98US-0096766.
PR 17-AUG-1998; 98US-0096768.
PR 17-AUG-1998; 98US-0096773.
PR 17-AUG-1998; 98US-0096791.
PR 17-AUG-1998; 98US-0096867.
PR 17-AUG-1998; 98US-0096891.
PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096895.
PR 17-AUG-1998; 98US-0096897.
PR 18-AUG-1998; 98US-0096949.
PR 18-AUG-1998; 98US-0096950.
PR 18-AUG-1998; 98US-0096959.
PR 18-AUG-1998; 98US-0096960.
PR 18-AUG-1998; 98US-0097022.
PR 19-AUG-1998; 98US-0097141.
PR 20-AUG-1998; 98US-0097218.
PR 24-AUG-1998; 98US-0097661.
PR 26-AUG-1998; 98US-0097951.
PR 26-AUG-1998; 98US-0097952.
PR 26-AUG-1998; 98US-0097954.
PR 26-AUG-1998; 98US-0097955.
PR 26-AUG-1998; 98US-0097971.
PR 26-AUG-1998; 98US-0097974.
PR 26-AUG-1998; 98US-0097978.
PR 26-AUG-1998; 98US-0097979.
PR 26-AUG-1998; 98US-0097986.
PR 26-AUG-1998; 98US-0098014.
PR 31-AUG-1998; 98US-0098525.
PR 16-SEP-1998; 98US-0100634.
PR 12-JAN-1999; 99US-0115565.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;
XX
XX WPI; 2000-072883/06.
XX N-PSDB; AAZ65030.
XX
XX Membrane-bound proteins and related nucleotide sequences -
XX
XX claim 12; Fig 151; 822pp; English.
XX
XX The invention provides membrane-bound PRO polypeptides and
XX polynucleotides encoding them. The PRO sequences of the invention were
XX identified based on extracellular domain homology screening. The PRO
XX sequences have homology with proteins including LDL receptors, TIE
XX ligands and various enzymes. The membrane-bound proteins and receptor
XX molecules are useful as pharmaceutical and diagnostic agents. Receptor
XX immunoadhesins, for instance, can be used as therapeutic agents to block
XX receptor-ligand interactions. The membrane-bound proteins can also be
XX employed for screening of potential peptide or small molecule inhibitors
XX of the relevant receptor/ligand interaction. The PRO encoding sequences
XX are useful as hybridization probes, in chromosome and gene mapping and in
XX the generation of antisense RNA and DNA. PRO nucleic acid sequences
XX will also be useful for the preparation of PRO polypeptides, especially
XX by recombinant techniques.
XX
XX SQ Sequence 265 AA;
XX
XX Query Match 100.0%; Score 1409; DB 21; Length 265;
XX Best Local Similarity 100.0%; Pred. No. 2.9e-131;
XX Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLEVPFKGRWLVITCCAPQPPPIITY 60

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Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLEVPFKGRWLVITCCAPQPPPIITY 60
Qy 61 SLCGTKNIKVAKKVKTHPEASFNLNVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
Db 61 SLCGTKNIKVAKKVKTHPEASFNLNVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
Qy 121 LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQORPCHROPA 180
Db 121 LWSKPVSELNANFTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQORPCHROPA 180
Qy 181 NFSFLPSQTSDFWFCQAANNANVQHSALTVPVPGGDKMEDWQGPLESPIALPLYRSTR 240
Db 181 NFSFLPSQTSDFWFCQAANNANVQHSALTVPVPGGDKMEDWQGPLESPIALPLYRSTR 240
Qy 241 RLSEEEFGGPRIGNGEVGRKKAAM 265
Db 241 RLSEEEFGGPRIGNGEVGRKKAAM 265
XX
XX AAB65214 standard; Protein; 265 AA.
XX
XX AAB65214;
XX
XX 02-APR-2001 (first entry)
XX
XX Human PRO809 (UNQ464) protein sequence SEQ ID NO:223.
XX
XX Human; secreted and transmembrane protein; PRO; cytostatic;
XX cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
XX diagnostic assay.
XX
XX Homo sapiens.
XX
XX WO2000073454-A1.
XX
XX 07-DEC-2000.
XX
XX 30-MAR-2000; 2000WO-US08439.
XX
XX 02-JUN-1999; 99WO-US12252.
XX 23-JUN-1999; 99US-0141037.
XX 07-JUL-1999; 99US-0143048.
XX 20-JUL-1999; 99US-0144758.
XX 26-JUL-1999; 99US-0145698.
XX 28-JUL-1999; 99US-0146222.
XX 17-AUG-1999; 99US-0149396.
XX 15-SEP-1999; 99WO-US21090.
XX 15-SEP-1999; 99WO-US21547.
XX 08-OCT-1999; 99US-0158663.
XX 30-NOV-1999; 99WO-US28313.
XX 01-DEC-1999; 99WO-US28301.
XX 16-DEC-1999; 99WO-US30095.
XX 20-DEC-1999; 99WO-US30911.
XX 05-JAN-2000; 2000WO-US00219.
XX 06-JAN-2000; 2000WO-US00376.
XX 11-FEB-2000; 2000WO-US03565.
XX 18-FEB-2000; 2000WO-US04341.
XX 22-FEB-2000; 2000WO-US04414.
XX 24-FEB-2000; 2000WO-US04914.
XX 24-FEB-2000; 2000WO-US05004.
XX 02-MAR-2000; 2000WO-US05841.
XX 15-MAR-2000; 2000WO-US06884.
XX 20-MAR-2000; 2000WO-US07377.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
XX Grimaldi CU, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
XX Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;

```

PI Zhang Z;
 XX WPI; 2001-032160/04.
 DR N-PSDB; AAF44176.
 XX
 PT PRO polynucleotides used to produce polypeptides used to target
 PT bioactive molecules such as toxins, radiolabels or antibodies, to
 PT specific cells, to cause targeted cell death -
 XX
 PS Claim 12; Fig 151; 935pp; English.
 XX
 CC The present invention describes human secreted and transmembrane PRO
 CC proteins. The PRO proteins have cytostatic activity. The PRO proteins
 CC can be used for targeted delivery of bioactive molecules, such as
 CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
 CC sequences, and their fragments, can be used as hybridisation probes, in
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA
 CC and DNA. They may also be used to produce transgenic animals which are
 CC used to develop and screen therapeutically useful reagents. The PRO
 CC nucleotide and protein sequence can be used for tissue typing and in
 CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
 CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used
 CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
 CC AAB65154 to AAB65300 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention.
 XX
 SQ Sequence 265 AA;
 Query Match 100.0%; Score 1409; DB 22; Length 265;
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIYKVLVFPKGRWVLTCCAPQPPPTTY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIYKVLVFPKGRWVLTCCAPQPPPTTY 60
 QY 61 SLGCTKNIKVAKKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
 Db 61 SLGCTKNIKVAKKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180
 QY 181 NFSFLPSQTSDFWQCQANNANVQHSALTVPVPGGDQKMDWQGLPESLILALPLVSTR 240
 Db 181 NFSFLPSQTSDFWQCQANNANVQHSALTVPVPGGDQKMDWQGLPESLILALPLVSTR 240
 QY 241 RLSEEFEGGPRIGNGEVGRKAAM 265
 Db 241 RLSEEFEGGPRIGNGEVGRKAAM 265
 RESULT 4
 AAU83666
 ID AAU83666 standard; Protein; 265 AA.
 XX
 AC AAU83666;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human PRO protein, seq ID No 150.
 XX
 KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;
 KW pericyte cell proliferation; chondrocyte cell proliferation;
 KW tumour necrosis factor-alpha.
 XX
 OS Homo sapiens.
 XX
 PN W0200208288-A2;
 XX
 PD 31-JAN-2002.

XX 29-JUN-2001; 2001WO-US21066.
 XX
 PR 20-JUL-2000; 2000US-219556P.
 PR 25-JUL-2000; 2000US-220585P.
 PR 25-JUL-2000; 2000US-220605P.
 PR 25-JUL-2000; 2000US-220607P.
 PR 25-JUL-2000; 2000US-220624P.
 PR 25-JUL-2000; 2000US-220638P.
 PR 25-JUL-2000; 2000US-220664P.
 PR 25-JUL-2000; 2000US-220666P.
 PR 26-JUL-2000; 2000US-220893P.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 15-SEP-2000; 2000US-000000P.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 28-NOV-2000; 2000US-253646P.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 10-MAY-2001; 2001US-0854280.
 PR 23-MAY-2001; 2001WO-US17092.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
 XX
 DR WPI; 2002-172001/22.
 DR N-PSDB; ABK33610.
 XX
 PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
 PT useful for treating a PRO related disorder and for diagnosing tumours
 PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal
 PT tumour or liver tumour -
 XX
 XX Claim 11; Figure 150; 359pp; English.
 XX
 CC The invention relates to one hundred and twenty two nucleic acids
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
 CC agonists and antagonists are useful for treating a PRO related disorder.
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
 CC protein sequences of the invention.
 XX
 SQ Sequence 265 AA;
 Query Match 100.0%; Score 1409; DB 23; Length 265;
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIYKVLVFPKGRWVLTCCAPQPPPTTY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIYKVLVFPKGRWVLTCCAPQPPPTTY 60
 QY 61 SLGCTKNIKVAKKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
 Db 61 SLGCTKNIKVAKKVKVKTTPASFNLTLSKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180

Db	121	LSWKPSELRANFTLQDRGAPRVMICQASSGPPTNSLIGKDGQVHIQQRPCHQPA	180
Qy	181	NFSFLPSQTSDFWQCAANNANVQHSALTVPVPGDQKMDWQGLPESPILALPLYRSTR	240
Db	181	NFSFLPSQTSDFWQCAANNANVQHSALTVPVPGDQKMDWQGLPESPILALPLYRSTR	240
Qy	241	RLSEEEFGGFRIGNGEVRGKKAAM	265
Db	241	RLSEEEFGGFRIGNGEVRGKKAAM	265
RESULT 5			
ABU59107			
ID	ABU59107	standard; Protein; 265 AA.	
XX	AC	ABU59107;	
XX	XX		
XX	XX		
DT	28-APR-2003	(first entry)	
XX	XX		
DE	Novel human secreted or transmembrane protein PRO609.		
XX	XX		
KW	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;		
KW	cardiac insufficiency disorder; cancer; tumour; immune response;		
KW	adrenal cortical capillary endothelial growth; c-fos induction;		
KW	vascular endothelial growth factor inhibition; VEGF inhibition;		
KW	endothelial cell growth inhibitor; T-lymphocytes stimulation;		
KW	retinal neurons cell survival; rod photoreceptor cell survival;		
KW	retinal disorder; retinitis pigmentosa; kidney disorder;		
KW	mammalian kidney mesangial cell proliferation; Berger disease;		
KW	dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;		
XX	chondrocyte redifferentiation; sports injury; arthritis.		
OS	Homo sapiens.		
XX	XX		
PN	US2002132252-A1.		
XX	XX		
PD	19-SEP-2002.		
XX	XX		
PF	14-NOV-2001; 2001US-0390442.		
XX	XX		
PR	05-NOV-1997; 97WO-US20069.		
PR	16-SEP-1998; 98WO-US19330.		
PR	17-SEP-1998; 98WO-US19437.		
PR	07-OCT-1998; 98WO-US21141.		
PR	01-DEC-1998; 98WO-US25108.		
PR	05-JAN-1999; 99WO-US00106.		
PR	08-MAR-1999; 99WO-US05028.		
PR	02-JUN-1999; 99WO-US12252.		
PR	15-SEP-1999; 99WO-US21090.		
PR	15-SEP-1999; 99WO-US21547.		
PR	30-NOV-1999; 99WO-US28313.		
PR	01-DEC-1999; 99WO-US28301.		
PR	01-DEC-1999; 99WO-US28634.		
PR	16-DEC-1999; 99WO-US30095.		
PR	20-DEC-1999; 99WO-US30911.		
PR	06-JAN-2000; 2000WO-US00219.		
PR	06-JAN-2000; 2000WO-US00376.		
PR	11-FEB-2000; 2000WO-US03565.		
PR	18-FEB-2000; 2000WO-US04341.		
PR	22-FEB-2000; 2000WO-US04414.		
PR	24-FEB-2000; 2000WO-US04914.		
PR	24-FEB-2000; 2000WO-US05004.		
PR	02-MAR-2000; 2000WO-US05841.		
PR	10-MAR-2000; 2000WO-US06319.		
PR	15-MAR-2000; 2000WO-US06984.		
PR	20-MAR-2000; 2000WO-US07377.		
PR	30-MAR-2000; 2000WO-US08439.		
PR	15-MAY-2000; 2000WO-US13358.		
PR	17-MAY-2000; 2000WO-US13705.		
PR	22-MAY-2000; 2000WO-US14042.		
PR	30-MAY-2000; 2000WO-US14941.		
PR	02-JUN-2000; 2000WO-US15264.		
PR	28-JUL-2000; 2000WO-US20710.		

ABU59403
ID ABU59403 standard; Protein; 265 AA.
XX AC ABU59403;
XX DT 22-APR-2003 (first entry)
XX DE Novel human secreted or transmembrane protein PRO791.
XX KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX OS Homo sapiens.
XX PN US2003027985-A1.
XX PD 06-FEB-2003.
XX PF 14-NOV-2001; 2001US-0990562.
XX PR 05-NOV-1997; 97WO-US200069.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 02-MAR-2000; 2000WO-US05004.
PR 10-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06319.
PR 20-MAR-2000; 2000WO-US06884.
PR 30-MAR-2000; 2000WO-US07377.
PR 15-MAY-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13358.
PR 22-MAY-2000; 2000WO-US13705.
PR 30-MAY-2000; 2000WO-US14042.
PR 02-JUN-2000; 2000WO-US14941.
PR 28-JUL-2000; 2000WO-US15264.
PR 11-AUG-2000; 2000WO-US20710.
PR 23-AUG-2000; 2000WO-US22031.
PR 24-AUG-2000; 2000WO-US23522.
PR 08-NOV-2000; 2000WO-US23328.
PR 01-DEC-2000; 2000WO-US30952.
PR 28-FEB-2001; 2000WO-US32678.
PR 01-JUN-2001; 2001WO-US06520.
PR 20-JUN-2001; 2001WO-US17800.
PR 29-JUN-2001; 2001WO-US19692.
PR 09-JUL-2001; 2001WO-US21066.
PR 16-JUN-1997; 2001WO-US21735.
PR 17-OCT-1997; 97US-062250P.
PR 12-NOV-1997; 97US-065186P.
PR 13-NOV-1997; 97US-065311P.
PR 24-NOV-1997; 97US-066770P.
PR 25-FEB-1998; 98US-075945P.
PR 20-MAR-1998; 98US-078910P.
PR 28-APR-1998; 98US-083322P.
PR 07-MAY-1998; 98US-084600P.
PR 28-MAY-1998; 98US-087108P.
PR 02-JUN-1998; 98US-087607P.
PR 02-JUN-1998; 98US-087609P.
PR 03-JUN-1998; 98US-087759P.
PR 04-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088021P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088030P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088328P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088734P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088742P.
PR 10-JUN-1998; 98US-088810P.
PR 10-JUN-1998; 98US-088824P.
PR 11-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088858P.
PR 11-JUN-1998; 98US-088861P.
PR 12-JUN-1998; 98US-088876P.
PR 16-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089440P.
PR 16-JUN-1998; 98US-089512P.
PR 17-JUN-1998; 98US-089532P.
PR 17-JUN-1998; 98US-089538P.
PR 17-JUN-1998; 98US-089598P.
PR 17-JUN-1998; 98US-089599P.
PR 17-JUN-1998; 98US-089600P.
PR 17-JUN-1998; 98US-089653P.
PR 18-JUN-1998; 98US-089801P.
PR 18-JUN-1998; 98US-089907P.
PR 18-JUN-1998; 98US-089908P.
PR 19-JUN-1998; 98US-089947P.
PR 19-JUN-1998; 98US-089948P.
PR 19-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090246P.
PR 22-JUN-1998; 98US-090252P.
PR 23-JUN-1998; 98US-090254P.
PR 23-JUN-1998; 98US-090349P.
PR 23-JUN-1998; 98US-090355P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090431P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090445P.
PR 24-JUN-1998; 98US-090472P.
PR 24-JUN-1998; 98US-090535P.
PR 24-JUN-1998; 98US-090540P.
PR 24-JUN-1998; 98US-090542P.
PR 24-JUN-1998; 98US-090557P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
PR 25-JUN-1998; 98US-090695P.
PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.

PR	01-JUL-1998;	98US-091360P.	Db	181	NFSFLPSQSDWFVWCOAANNVQHSALTIVVPPGGDKMEDWQGPLESFILALPLYRSTR	240
PR	01-JUL-1998;	98US-091544P.	Qy	241	RLSEEEFGGFRIGNGEVGRKAAAM	265
PR	02-JUL-1998;	98US-091478P.	Db	241	RLSEEEFGGFRIGNGEVGRKAAAM	265
PR	02-JUL-1998;	98US-091519P.	RESULT 8			
PR	02-JUL-1998;	98US-091626P.	ABU60538			
PR	02-JUL-1998;	98US-091628P.	ID	ABU60538	standard; Protein; 265 AA.	
PR	02-JUL-1998;	98US-091633P.	XX	XX		
PR	02-JUL-1998;	98US-091646P.	AC	ABU60538;		
PR	02-JUL-1998;	98US-091673P.	XX	XX		
PR	02-JUL-1998;	98US-091787P.	DT	01-MAY-2003	(first entry)	
PR	07-JUL-1998;	98US-091982P.	XX	XX		
PR	07-JUL-1998;	98US-092182P.	DE	Human secreted/transmembrane protein, #90.		
PR	09-JUL-1998;	98US-092472P.	XX	XX		
PR	20-JUL-1998;	98US-093339P.	KW	Human; PRO; secreted; transmembrane; signal peptide;		
PR	30-JUL-1998;	98US-094651P.	KW	pharmaceutical; diagnostic; therapeutic; gene therapy.		
PR	04-AUG-1998;	98US-095282P.	XX	XX		
PR	04-AUG-1998;	98US-095285P.	OS	Homo sapiens.		
PR	04-AUG-1998;	98US-095301P.	PN	US2002160384-A1.		
PR	04-AUG-1998;	98US-095318P.	XX	XX		
PR	04-AUG-1998;	98US-095321P.	PD	31-OCT-2002.		
PR	04-AUG-1998;	98US-095325P.	XX	XX		
PR	10-AUG-1998;	98US-095916P.	PF	14-NOV-2001; 2001US-0992598.		
PR	10-AUG-1998;	98US-095929P.	XX	XX		
PR	11-AUG-1998;	98US-096012P.	PR	05-NOV-1997; 97WO-US20069.		
PR	11-AUG-1998;	98US-096143P.	PR	16-SEP-1998; 98WO-US19330.		
PR	12-AUG-1998;	98US-096146P.	PR	17-SEP-1998; 98WO-US19437.		
PR	17-AUG-1998;	98US-096329P.	PR	07-OCT-1998; 98WO-US21141.		
PR	17-AUG-1998;	98US-096757P.	PR	01-DEC-1998; 98WO-US25108.		
PR	17-AUG-1998;	98US-096766P.	PR	05-JAN-1999; 99WO-US00106.		
PR	17-AUG-1998;	98US-096768P.	PR	08-MAR-1999; 99WO-US05028.		
PR	17-AUG-1998;	98US-096773P.	PR	02-JUN-1999; 99WO-US12252.		
PR	17-AUG-1998;	98US-096791P.	PR	15-SEP-1999; 99WO-US21090.		
PR	17-AUG-1998;	98US-096867P.	PR	15-SEP-1999; 99WO-US21547.		
PR	17-AUG-1998;	98US-096891P.	PR	30-NOV-1999; 99WO-US28313.		
PR	17-AUG-1998;	98US-096894P.	PR	01-DEC-1999; 99WO-US28301.		
PR	17-AUG-1998;	98US-096895P.	PR	01-DEC-1999; 99WO-US28634.		
PR	17-AUG-1998;	98US-096949P.	PR	16-DEC-1999; 99WO-US30095.		
PR	18-AUG-1998;	98US-096949P.	PR	20-DEC-1999; 99WO-US30911.		
PR	18-AUG-1998;	98US-096950P.	PR	05-JAN-2000; 2000WO-US00219.		
PR	18-AUG-1998;	98US-096959P.	PR	06-JAN-2000; 2000WO-US00376.		
PR	18-AUG-1998;	98US-096960P.	PR	11-FEB-2000; 2000WO-US03565.		
PR	18-AUG-1998;	98US-097022P.	PR	18-FEB-2000; 2000WO-US04341.		
PR	19-AUG-1998;	98US-097141P.	PR	22-FEB-2000; 2000WO-US04414.		
PR	20-AUG-1998;	98US-097218P.	PR	24-FEB-2000; 2000WO-US04914.		
PR	24-AUG-1998;	98US-097661P.	PR	24-FEB-2000; 2000WO-US05004.		
PR	26-AUG-1998;	98US-097952P.	PR	02-MAR-2000; 2000WO-US05841.		
PR	26-AUG-1998;	98US-097954P.	PR	15-MAR-2000; 2000WO-US06319.		
PR	26-AUG-1998;	98US-097955P.	PR	20-MAR-2000; 2000WO-US07377.		
PR	26-AUG-1998;	98US-097971P.	PR	30-MAR-2000; 2000WO-US08439.		
PR	26-AUG-1998;	98US-097974P.	PR	15-MAY-2000; 2000WO-US13358.		
PR	26-AUG-1998;	98US-097978P.	PR	17-MAY-2000; 2000WO-US13705.		
PR	26-AUG-1998;	98US-097979P.	PR	22-MAY-2000; 2000WO-US14042.		
PR	26-AUG-1998;	98US-097986P.	PR	30-MAY-2000; 2000WO-US14941.		
PR	26-AUG-1998;	98US-098014P.	PR	02-JUN-2000; 2000WO-US15264.		
PR			PR	28-JUL-2000; 2000WO-US20710.		
PR			PR	11-AUG-2000; 2000WO-US22031.		
PR			PR	23-AUG-2000; 2000WO-US23522.		
PR			PR	24-AUG-2000; 2000WO-US23328.		
PR			PR	08-NOV-2000; 2000WO-US30952.		
PR			PR	01-DEC-2000; 2000WO-US32678.		
PR			PR	28-FEB-2001; 2001WO-US06520.		
PR			PR	01-JUN-2001; 2001WO-US17800.		
PR			PR	20-JUN-2001; 2001WO-US19692.		
PR			PR	29-JUN-2001; 2001WO-US21066.		
PR			PR	09-JUL-2001; 2001WO-US21735.		
PR			PR	16-JUN-1997; 97US-049787P.		
Query Match 100.0%; Score 1409; DB 24; Length 265;						
Best Local Similarity 100.0%; Pred. No. 2.9e-131;						
Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy	1	MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY	60			
Db	1	MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY	60			
Qy	61	SLCGTKNIKAVKVKVTHEPASNVLNLTLSKSPDLLTYFCRASSTGSAHVDSARLQHW	120			
Db	61	SLCGTKNIKAVKVKVTHEPASNVLNLTLSKSPDLLTYFCRASSTGSAHVDSARLQHW	120			
Qy	121	LWSPVSELANFTLQDRGAGPRVEMTCQASSGPPITNSLIGKQGVHLQORPCHQPA	180			
Db	121	LWSPVSELANFTLQDRGAGPRVEMTCQASSGPPITNSLIGKQGVHLQORPCHQPA	180			
Qy	181	NFSFLPSQSDWFVWCOAANNVQHSALTIVVPPGGDKMEDWQGPLESFILALPLYRSTR	240			

PR 17-OCT-1997; 97US-062250P.
 PR 12-NOV-1997; 97US-065186P.
 PR 13-NOV-1997; 97US-065311P.
 PR 24-NOV-1997; 97US-066770P.
 PR 25-FEB-1998; 98US-075945P.
 PR 20-MAR-1998; 98US-078910P.
 PR 28-APR-1998; 98US-083322P.
 PR 07-MAY-1998; 98US-084600P.
 PR 28-MAY-1998; 98US-087106P.
 PR 02-JUN-1998; 98US-087607P.
 PR 02-JUN-1998; 98US-087609P.
 PR 02-JUN-1998; 98US-087759P.
 PR 03-JUN-1998; 98US-087827P.
 PR 04-JUN-1998; 98US-088021P.
 PR 04-JUN-1998; 98US-088025P.
 PR 04-JUN-1998; 98US-088026P.
 PR 04-JUN-1998; 98US-088028P.
 PR 04-JUN-1998; 98US-088029P.
 PR 04-JUN-1998; 98US-088030P.
 PR 04-JUN-1998; 98US-088033P.
 PR 04-JUN-1998; 98US-088326P.
 PR 05-JUN-1998; 98US-088167P.
 PR 05-JUN-1998; 98US-088202P.
 PR 05-JUN-1998; 98US-088212P.
 PR 05-JUN-1998; 98US-088217P.
 PR 09-JUN-1998; 98US-088655P.
 PR 10-JUN-1998; 98US-088734P.
 PR 10-JUN-1998; 98US-088738P.
 PR 10-JUN-1998; 98US-088742P.
 PR 10-JUN-1998; 98US-088810P.
 PR 10-JUN-1998; 98US-088824P.
 PR 10-JUN-1998; 98US-088826P.
 PR 11-JUN-1998; 98US-088858P.
 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 17-JUN-1998; 98US-089532P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089598P.
 PR 17-JUN-1998; 98US-089599P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089603P.
 PR 18-JUN-1998; 98US-089801P.
 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.

(GETH) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Botstein D, Deanoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kijavini LJ, Napier MA, Pan J, Paooni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;

XX WPI: 2003-288106/28.

DR N-PSDB; ABX90244.

XX New transmembrane polypeptides and nucleic acids encoding the
 PT polypeptides, useful in gene therapy, in chromosome identification, as
 PT chromosome markers, or in generating probes -

XX Claim 12; Fig 151; 650pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or

CC polynucleotides are also useful in gene therapy, in chromosome
 CC identification, as chromosome markers, or in generating probes. The PRO
 CC polypeptides are useful as molecular markers for protein
 CC electrophoresis, and the isolated nucleic acids may be used for
 CC recombinantly expressing those markers. The PRO polypeptides and nucleic
 CC acids may also be used in tissue typing. Anti-PRO antibodies are useful
 CC in diagnostic assays for PRO, and in affinity purification of PRO from
 CC recombinant cell culture or natural sources. The sequences presented in
 CC ASU60478-ABU60624 are the PRO polynucleotides of the invention.
 CC Note: The sequence data for this patent is also available in electronic
 CC format from USPTO at seqdata.uspto.gov/sequence.html.

XX Sequence 265 AA;

Query Match 100.0%; Score 1409; DB 24; Length 265;
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGLPGLFCLAVLAASSFSKAREEETPVVSIAYKVLEVPKGRWVLTCCAPQPPPPITY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEETPVVSIAYKVLEVPKGRWVLTCCAPQPPPPITY 60
 QY 61 SLCGTNIKIVAKVVKVTHEPASPENLVTKSSPDLLTYFCRASSTGSAHVDSARLQHWHE 120
 Db 61 SLCGTNIKIVAKVVKVTHEPASPENLVTKSSPDLLTYFCRASSTGSAHVDSARLQHWHE 120
 QY 121 LMSKPVSELRANFTLQDRGAGPRVEMICQASSGSPITNSLIGKDGQVHLQORPCHROPA 180
 Db 121 LMSKPVSELRANFTLQDRGAGPRVEMICQASSGSPITNSLIGKDGQVHLQORPCHROPA 180
 QY 181 NFSFLPSQTSDFWFCQAANNVQHSALTVPVPGGQKMDWQGPLESPIALPLYSRSTR 240
 Db 181 NFSFLPSQTSDFWFCQAANNVQHSALTVPVPGGQKMDWQGPLESPIALPLYSRSTR 240
 QY 241 RLSEEEFGFRGNGEVRGRKAAAM 265
 Db 241 RLSEEEFGFRGNGEVRGRKAAAM 265

RESULT 9

ABU58029

ID ABU58029 standard; Protein; 265 AA.

XX ABU58029;

XX 14-APR-2003 (first entry)

XX Human PRO polypeptide #61.

XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
 KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
 KW antibody-dependent enzyme mediated prodrug therapy.

XX Homo sapiens.

XX US2003027163-A1.

XX 06-FEB-2003.

XX 15-NOV-2001; 2001US-0997666.

XX 05-NOV-1997; 97WO-US200069.

PR 16-SEP-1998; 98WO-US19330.

PR 17-SEP-1998; 98WO-US19437.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 05-JAN-1999; 99WO-US00106.

PR 08-MAR-1999; 99WO-US05028.

PR 02-JUN-1999; 99WO-US12252.

PR 15-SEP-1999; 99WO-US21090.

PR 15-SEP-1999; 99WO-US21547.

PR 30-NOV-1999; 99WO-US28313.

PR 01-DEC-1999; 99WO-US28301.

PR 01-DEC-1999; 99WO-US28634.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30311.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04514.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05841.
PR 10-MAR-2000; 2000WO-US06319.
PR 15-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
PR 30-MAR-2000; 2000WO-US08439.
PR 15-MAY-2000; 2000WO-US13358.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 16-JUN-1997; 97US-049787P.
PR 17-OCT-1997; 97US-062250P.
PR 12-NOV-1997; 97US-065186P.
PR 13-NOV-1997; 97US-065311P.
PR 24-NOV-1997; 97US-066770P.
PR 25-FEB-1998; 98US-075945P.
PR 20-MAR-1998; 98US-078910P.
PR 28-APR-1998; 98US-083322P.
PR 07-MAY-1998; 98US-084600P.
PR 28-MAY-1998; 98US-087106P.
PR 02-JUN-1998; 98US-087607P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088032P.
PR 04-JUN-1998; 98US-088025P.
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PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088326P.
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PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088734P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088742P.
PR 10-JUN-1998; 98US-088810P.
PR 10-JUN-1998; 98US-088824P.
PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088858P.
PR 11-JUN-1998; 98US-088861P.
PR 11-JUN-1998; 98US-088876P.
PR 12-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089440P.
PR 16-JUN-1998; 98US-089512P.
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PR 19-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090246P.
PR 22-JUN-1998; 98US-090252P.
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PR 23-JUN-1998; 98US-090349P.
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PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090431P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090445P.
PR 24-JUN-1998; 98US-090472P.
PR 24-JUN-1998; 98US-090535P.
PR 24-JUN-1998; 98US-090540P.
PR 24-JUN-1998; 98US-090542P.
PR 24-JUN-1998; 98US-090557P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
PR 25-JUN-1998; 98US-090695P.
PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 01-JUL-1998; 98US-091360P.
PR 01-JUL-1998; 98US-091544P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091519P.
PR 02-JUL-1998; 98US-091626P.
PR 02-JUL-1998; 98US-091628P.
PR 02-JUL-1998; 98US-091633P.
PR 02-JUL-1998; 98US-091646P.
PR 02-JUL-1998; 98US-091673P.
PR 07-JUL-1998; 98US-091978P.
PR 07-JUL-1998; 98US-091982P.
PR 09-JUL-1998; 98US-092182P.
PR 10-JUL-1998; 98US-092472P.
PR 20-JUL-1998; 98US-093339P.
PR 30-JUL-1998; 98US-094651P.
PR 04-AUG-1998; 98US-095282P.
PR 04-AUG-1998; 98US-095285P.
PR 04-AUG-1998; 98US-095301P.
PR 04-AUG-1998; 98US-095302P.
PR 04-AUG-1998; 98US-095318P.
PR 04-AUG-1998; 98US-095321P.
PR 04-AUG-1998; 98US-095325P.
PR 10-AUG-1998; 98US-095916P.
PR 10-AUG-1998; 98US-095929P.
PR 10-AUG-1998; 98US-096012P.
PR 11-AUG-1998; 98US-096143P.
PR 11-AUG-1998; 98US-096146P.
PR 12-AUG-1998; 98US-096329P.
PR 17-AUG-1998; 98US-096757P.
PR 17-AUG-1998; 98US-096766P.
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PR 17-AUG-1998; 98US-096897P.
PR 18-AUG-1998; 98US-096949P.
PR 18-AUG-1998; 98US-096950P.

PR	18-AUG-1998;	98US-096959P.	PR	01-DEC-1998;	98WO-US25108.
PR	18-AUG-1998;	98US-096960P.	PR	05-JAN-1999;	99WO-US00106.
PR	18-AUG-1998;	98US-097022P.	PR	08-MAR-1999;	99WO-US05028.
PR	19-AUG-1998;	98US-097141P.	PR	02-JUN-1999;	99WO-US12252.
PR	20-AUG-1998;	98US-097218P.	PR	15-SEP-1999;	99WO-US21090.
PR	24-AUG-1998;	98US-097661P.	PR	13-SEP-1999;	99WO-US21547.
PR	26-AUG-1998;	98US-097952P.	PR	30-NOV-1999;	99WO-US28313.
PR	26-AUG-1998;	98US-097954P.	PR	01-DEC-1999;	99WO-US28301.
PR	26-AUG-1998;	98US-097955P.	PR	16-DEC-1999;	99WO-US28634.
PR	26-AUG-1998;	98US-097971P.	PR	01-DEC-1999;	99WO-US30095.
PR	26-AUG-1998;	98US-097978P.	PR	16-DEC-1999;	99WO-US30911.
PR	26-AUG-1998;	98US-097979P.	PR	05-JAN-2000;	2000WO-US00219.
PR	26-AUG-1998;	98US-097986P.	PR	06-JAN-2000;	2000WO-US00376.
PR	26-AUG-1998;	98US-098014P.	PR	11-FEB-2000;	2000WO-US03565.
PR	31-AUG-1998;	98US-098525P.	PR	18-FEB-2000;	2000WO-US04341.
PR	16-SEP-1998;	98US-100634P.	PR	22-FEB-2000;	2000WO-US04414.
PR	17-SEP-1998;	98US-100858P.	PR	24-FEB-2000;	2000WO-US04914.
PR	22-DEC-1998;	98US-113296P.	PR	02-MAR-2000;	2000WO-US05004.
PR	12-MAR-1999;	99US-123957P.	PR	10-MAR-2000;	2000WO-US05841.
PR	23-JUN-1999;	99US-141037P.	PR	15-MAR-2000;	2000WO-US06319.
PR	07-JUL-1999;	99US-143048P.	PR	20-MAR-2000;	2000WO-US07377.
Query Match			PR 30-MAR-2000;		
Best Local Similarity 100.0%; Score 1409; DB 24; Length 265;			PR 15-MAY-2000;		
Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			PR 17-MAY-2000;		
QY	1	MGLPGLFCLAVLAASFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60	PR	30-MAY-2000;	2000WO-US14941.
Db	1	MGLPGLFCLAVLAASFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60	PR	02-JUN-2000;	2000WO-US15264.
QY	61	SLCGTNIKIVAKVKTHTHEPASNLNLTLSKSPDLITFCRASSTSGAHVDSARLQWHE 120	PR	28-JUL-2000;	2000WO-US20710.
Db	61	SLCGTNIKIVAKVKTHTHEPASNLNLTLSKSPDLITFCRASSTSGAHVDSARLQWHE 120	PR	11-AUG-2000;	2000WO-US22031.
QY	121	LWCKPVSELRANFTLQDRGAGPRVEMTCQASSGSPPTNSLICKDGOVHLQORPCHROPA 180	PR	23-AUG-2000;	2000WO-US23522.
Db	121	LWCKPVSELRANFTLQDRGAGPRVEMTCQASSGSPPTNSLICKDGOVHLQORPCHROPA 180	PR	24-AUG-2000;	2000WO-US23328.
QY	181	NFSFLPSQTSDFWFCQAANNVQHSALITVPPGGQKMDWQGPLESPIALPLXRSTR 240	PR	08-NOV-2000;	2000WO-US30952.
Db	181	NFSFLPSQTSDFWFCQAANNVQHSALITVPPGGQKMDWQGPLESPIALPLXRSTR 240	PR	01-DEC-2000;	2000WO-US32678.
QY	241	RUSEEFGGFRNGEVRGKKAAM 265	PR	28-FEB-2001;	2001WO-US06520.
Db	241	RUSEEFGGFRNGEVRGKKAAM 265	PR	01-JUN-2001;	2001WO-US17800.
RESULT 10			PR	20-JUN-2001;	2001WO-US19692.
ABUS8960			PR	29-JUN-2001;	2001WO-US21066.
ID	ABUS8960 standard; Protein; 265 AA.		PR	09-JUL-2001;	2001WO-US21735.
XX	AC		PR	16-JUN-1997;	97US-049787P.
XX	AC		PR	17-OCT-1997;	97US-062250P.
XX	AC		PR	12-NOV-1997;	97US-065186P.
DT	16-APR-2003 (first entry)		PR	13-NOV-1997;	97US-065311P.
XX	Human setctreted/transmembrane protein, #90.		PR	24-NOV-1997;	97US-066770P.
DE	Human; PRO; secreted; transmembrane; signal peptide;		PR	25-FEB-1998;	98US-075945P.
XX	pharmaceutical; diagnostic; biosensor; bio reactor; tumour; therapeutic;		PR	20-MAR-1998;	98US-078910P.
KW	colon cancer; lung cancer; breast cancer; cancer; gene therapy.		PR	28-APR-1998;	98US-083322P.
XX	Homo sapiens.		PR	07-MAY-1998;	98US-084600P.
XX	US2002142961-A1.		PR	28-MAY-1998;	98US-087106P.
PN	03-OCT-2002.		PR	02-JUN-1998;	98US-087607P.
XX	19-NOV-2001; 2001US-0989721.		PR	02-JUN-1998;	98US-087609P.
XX	05-NOV-1997; 97WO-US20069.		PR	03-JUN-1998;	98US-087759P.
PR	17-SEP-1998; 98WO-US19437.		PR	04-JUN-1998;	98US-088021P.
PR	07-OCT-1998; 98WO-US21141.		PR	04-JUN-1998;	98US-088025P.
PR			PR	04-JUN-1998;	98US-088026P.
PR			PR	04-JUN-1998;	98US-088028P.
PR			PR	04-JUN-1998;	98US-088029P.
PR			PR	04-JUN-1998;	98US-088030P.
PR			PR	04-JUN-1998;	98US-088033P.
PR			PR	04-JUN-1998;	98US-088326P.
PR			PR	05-JUN-1998;	98US-088167P.
PR			PR	05-JUN-1998;	98US-088202P.
PR			PR	05-JUN-1998;	98US-088212P.
PR			PR	05-JUN-1998;	98US-088217P.
PR			PR	09-JUN-1998;	98US-088555P.
PR			PR	10-JUN-1998;	98US-088734P.
PR			PR	10-JUN-1998;	98US-088738P.
PR			PR	10-JUN-1998;	98US-088742P.
PR			PR	10-JUN-1998;	98US-088810P.
PR			PR	10-JUN-1998;	98US-088824P.
PR			PR	10-JUN-1998;	98US-088826P.
PR			PR	11-JUN-1998;	98US-088858P.

PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 17-JUN-1998; 98US-089532P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089598P.
 PR 17-JUN-1998; 98US-089599P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089653P.
 PR 18-JUN-1998; 98US-089801P.
 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.
 PA (GETH) GENENTECH INC.
 XX
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kljavin LJ, Napier MA, Pan J, Paoni NF;
 PI Roy WA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX
 XX WPI; 2003-155950/15.
 DR
 XX
 XX
 XX New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,
 PT PRO361 or PRO846) useful as targets for therapeutic intervention in
 PT cancers (e.g. lung or breast cancers), or for diagnosing these cancers
 PT
 XX
 PS Claim 12; Fig 151; 647pp; English.
 XX
 XX The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or
 CC polynucleotides are also useful as pharmaceuticals, diagnostics,
 CC biosensors or bioreactors, for detecting or treating e.g. tumours in
 CC mammals, e.g. humans, dogs, cats, cattle, horses, sheep, goats or
 CC rabbits as targets for therapeutic intervention in certain cancers (e.g.
 CC colon, lung or breast cancers) and diagnostic determination of the
 CC presence of these cancers. The PRO polypeptides are also useful as
 CC molecular weight markers or for chromosome identification. The PRO genes
 CC are useful as hybridisation probes or for screening libraries of human
 CC cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
 CC therapy, particularly for replacing a defective gene. The sequences
 CC presented in ABUS8900-ABUS9046 are the PRO polypeptides of the invention.
 XX
 SQ Sequence 265 AA;
 Query Match 100.0%; Score 1409; DB 24; Length 265;
 Best Local Similarity 100.0%; Pred. No. 2.9e-131;
 Matches 265; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGLPGLFCLAVLAASFSKAREEITPVVSIYKVLVEVPKGRWLVITCCAPPPPIY 60
 DB 1 MGLPGLFCLAVLAASFSKAREEITPVVSIYKVLVEVPKGRWLVITCCAPPPPIY 60
 QY 61 SLGCTKNIKVAKVKVTHEPASFNLNVLTKSSPDLLTYFCRASSTSGAHVDSARLQWME 120
 DB 61 SLGCTKNIKVAKVKVTHEPASFNLNVLTKSSPDLLTYFCRASSTSGAHVDSARLQWME 120
 QY 121 LWSKPVSELNANTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQRPCHROA 180
 DB 121 LWSKPVSELNANTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQRPCHROA 180
 QY 181 NFSFLPSQTSDFWFCQANNANVOHSALTVPBGQKQMEDWQGPLESPLALPLYRSTR 240
 DB 181 NFSFLPSQTSDFWFCQANNANVOHSALTVPBGQKQMEDWQGPLESPLALPLYRSTR 240

QY 241 RLSEEEFGGFRIGNGEVGRKKAAM 265
 DB 241 RLSEEEFGGFRIGNGEVGRKKAAM 265

RESULT 11
 ABUL3920
 ID ABUL3920 standard; Protein; 265 AA.
 XX
 AC ABUL3920;
 XX
 DT 26-FEB-2003 (first entry)
 XX
 DE Human PRO809 polypeptide.
 XX
 KW Human; PRO polypeptide; secreted protein; transmembrane protein;
 KW Genetic disorder; antibacterial; immunosuppressive.
 XX
 OS Homo sapiens.
 XX
 PN US2002103125-A1.
 XX
 PD 01-AUG-2002.
 XX
 PF 20-NOV-2001; 2001US-0989731.
 XX
 PR 05-NOV-1997; 97WO-US200069.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 07-OCT-1998; 98WO-US21141.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 06-JAN-2000; 2000WO-US00219.
 PR 11-FEB-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 20-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 28-FEB-2001; 2001WO-US04520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 16-JUN-1997; 97US-049787P.
 PR 17-OCT-1997; 97US-062250P.
 PR 12-NOV-1997; 97US-065186P.

PR 13-NOV-1997; 97US-065311P.
 PR 24-NOV-1997; 97US-066770P.
 PR 25-FEB-1998; 98US-075945P.
 PR 20-MAR-1998; 98US-078910P.
 PR 28-APR-1998; 98US-083322P.
 PR 07-MAY-1998; 98US-084600P.
 PR 28-MAY-1998; 98US-087108P.
 PR 02-JUN-1998; 98US-087607P.
 PR 02-JUN-1998; 98US-087609P.
 PR 02-JUN-1998; 98US-087759P.
 PR 03-JUN-1998; 98US-087827P.
 PR 04-JUN-1998; 98US-088021P.
 PR 04-JUN-1998; 98US-088025P.
 PR 04-JUN-1998; 98US-088026P.
 PR 04-JUN-1998; 98US-088028P.
 PR 04-JUN-1998; 98US-088029P.
 PR 04-JUN-1998; 98US-088030P.
 PR 04-JUN-1998; 98US-088033P.
 PR 04-JUN-1998; 98US-088036P.
 PR 05-JUN-1998; 98US-088167P.
 PR 05-JUN-1998; 98US-088202P.
 PR 05-JUN-1998; 98US-088212P.
 PR 05-JUN-1998; 98US-088217P.
 PR 09-JUN-1998; 98US-088655P.
 PR 10-JUN-1998; 98US-088734P.
 PR 10-JUN-1998; 98US-088738P.
 PR 10-JUN-1998; 98US-088742P.
 PR 10-JUN-1998; 98US-088810P.
 PR 10-JUN-1998; 98US-088824P.
 PR 10-JUN-1998; 98US-088826P.
 PR 11-JUN-1998; 98US-088858P.
 PR 11-JUN-1998; 98US-088861P.
 PR 11-JUN-1998; 98US-088876P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089440P.
 PR 16-JUN-1998; 98US-089512P.
 PR 16-JUN-1998; 98US-089514P.
 PR 17-JUN-1998; 98US-089532P.
 PR 17-JUN-1998; 98US-089538P.
 PR 17-JUN-1998; 98US-089598P.
 PR 17-JUN-1998; 98US-089599P.
 PR 17-JUN-1998; 98US-089600P.
 PR 17-JUN-1998; 98US-089653P.
 PR 18-JUN-1998; 98US-089801P.
 PR 18-JUN-1998; 98US-089907P.
 PR 18-JUN-1998; 98US-089908P.
 PR 28-AUG-2001; 2001US-0941992.
 (GETH) GENENTECH LTD.
 PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tamas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX WPI; 2003-102117/09.
 DR N-PSDB; ABX64030.
 XX Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers -
 XX Claim 12; Fig 151; 649pp; English.
 XX The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for
 CC linking bioactive molecules to cells expressing PRO polypeptides,
 CC for modulating biological activities of cells expressing PRO
 CC polypeptides, and for identifying agonists or antagonists.
 CC The polynucleotide sequences encoding PRO polypeptides are useful as

CC hybridisation probes, in chromosome and gene mapping, in the generation
 CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for
 CC generating transgenic animals or knockout animals, to construct
 CC hybridisation probes for mapping the gene which encodes the PRO
 CC polypeptide, and for the genetic analysis of individuals with genetic
 CC disorders, in gene therapy, for chromosome identification, as
 CC chromosome markers, and for generating probes for PCR, Northern
 CC analysis, Southern analysis and Western analysis. ABU13860-ABU14006
 CC represent the human PRO polypeptides of the invention.
 CC Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at
 CC seqdata.uspto.gov/psipdIDentry.html.
 XX Sequence 265 AA;
 XX
 Query Match 100.0%; Score 1409; DB 24; Length 265;
 Best Local Similarity 100.0%; Pred. No. 2.9e-131; Indels 0; Gaps 0;
 Matches 265; Conservative 0; Mismatches 0;
 QY 1 MGLPGLFCLAVLAASSFSKAREEEITPVVSIAYKVLEVPFKGRWVLTTCAPQPPPTTY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEEITPVVSIAYKVLEVPFKGRWVLTTCAPQPPPTTY 60
 QY 61 SLCGTNLIKVAKKVKTHTPEASNLNLTLSKSPDLITYFCRASSTGSAHVDSARLQHW 120
 Db 61 SLCGTNLIKVAKKVKTHTPEASNLNLTLSKSPDLITYFCRASSTGSAHVDSARLQHW 120
 QY 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180
 Db 121 LWSKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQORPCHROPA 180
 QY 181 NFSFLPSQTSDFWFCQAAANNVQHSALTVPVPGGQKMDWQGPLESPTLALPLVYRSTR 240
 Db 181 NFSFLPSQTSDFWFCQAAANNVQHSALTVPVPGGQKMDWQGPLESPTLALPLVYRSTR 240
 QY 241 RLSEEFEGGFRGNGEVRGKKAAM 265
 Db 241 RLSEEFEGGFRGNGEVRGKKAAM 265
 RESULT 12
 ABU10875
 ID ABU10875 standard; Protein; 265 AA.
 XX
 AC ABU10875;
 XX
 DT 04-FEB-2003 (first entry)
 XX
 DE Human PRO polypeptide #61.
 XX
 KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW toxin; radiolabel; cell death; gene mapping; chromosome mapping;
 KW protein electrophoresis; genetic disorder; immunosuppressive; cytostatic;
 KW antibacterial.
 XX
 OS Homo sapiens.
 XX
 PN US2002123463-A1.
 XX
 PD 05-SEP-2002.
 XX
 PF 19-NOV-2001; 2001US-0989732.
 XX
 PR 05-NOV-1997; 97WO-US20069.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 07-OCT-1998; 98WO-US21141.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.

PR	30-NOV-1999;	99WO-US28313.	PR	17-JUN-1998;	98US-089532P.	CC	The invention relates to a secreted and transmembrane polypeptide, termed
PR	01-DEC-1999;	99WO-US28301.	PR	17-JUN-1998;	98US-089538P.	CC	PRO polypeptide, and the polynucleotide encoding it. The polypeptide is
PR	01-DEC-1999;	99WO-US28634.	PR	17-JUN-1998;	98US-089598P.	CC	useful for detecting PRO polypeptides and for linking a bioactive
PR	16-DEC-1999;	99WO-US30095.	PR	17-JUN-1998;	98US-089599P.	CC	molecule to a cell expressing the above polypeptides, where the bioactive
PR	20-DEC-1999;	99WO-US30911.	PR	17-JUN-1998;	98US-089600P.	CC	molecule is a toxin, radiolabel or an antibody. The bioactive material
PR	06-JAN-2000;	2000WO-US00219.	PR	17-JUN-1998;	98US-089653P.	CC	causes the death of the cell. The polypeptide is useful for identifying
PR	06-JAN-2000;	2000WO-US00376.	PR	17-JUN-1998;	98US-089801P.	CC	agonists or antagonists of the PRO polypeptide, for preparing variants of
PR	11-FEB-2000;	2000WO-US03565.	PR	18-JUN-1998;	98US-089907P.	CC	PRO, as a molecular weight marker for protein electrophoresis purposes
PR	18-FEB-2000;	2000WO-US04341.	PR	18-JUN-1998;	98US-089908P.	CC	and the PRO polynucleotide is useful for recombinantly expressing those
PR	22-FEB-2000;	2000WO-US04414.	PR	28-AUG-2001;	2001US-0941992.	CC	markers. The polynucleotide is also useful as a hybridisation probe, in
PR	24-FEB-2000;	2000WO-US04914.	XX			CC	chromosome and gene mapping, in generation of antisense RNA and DNA, in
PR	12-MAR-2000;	2000WO-US05841.	XX			CC	the preparation of PRO polypeptide, for generating transgenic animals or
PR	10-MAR-2000;	2000WO-US06319.	XX			CC	knockout animals which in turn are useful in the development and
PR	15-MAR-2000;	2000WO-US06884.	XX			CC	screening of therapeutically useful reagents, to construct hybridisation
PR	20-MAR-2000;	2000WO-US07377.	XX			CC	probes for mapping the gene which encodes PRO and for the genetic
PR	30-MAR-2000;	2000WO-US08439.	XX			CC	analysis of individuals with genetic disorders, in gene therapy, for
PR	15-MAY-2000;	2000WO-US13358.	XX			CC	chromosome identification, as a chromosome marker and for generating
PR	17-MAY-2000;	2000WO-US13705.	XX			CC	probes for PCR, Northern analysis, Southern analysis and Western
PR	22-MAY-2000;	2000WO-US14042.	XX			CC	analysis. This sequence represents a human PRO polypeptide of the
PR	30-MAY-2000;	2000WO-US14941.	XX			XX	invention.
PR	02-JUN-2000;	2000WO-US15264.	XX			SQ	Sequence 265 AA;
PR	28-JUL-2000;	2000WO-US20710.	XX				
PR	11-AUG-2000;	2000WO-US22031.	XX				
PR	23-AUG-2000;	2000WO-US23522.	XX				
PR	24-AUG-2000;	2000WO-US23328.	XX				
PR	08-NOV-2000;	2000WO-US30952.	XX				
PR	01-DEC-2000;	2000WO-US32678.	XX				
PR	28-FEB-2001;	2001WO-US06520.	XX				
PR	01-JUN-2001;	2001WO-US17800.	XX				
PR	20-JUN-2001;	2001WO-US19692.	XX				
PR	29-JUL-2001;	2001WO-US21066.	XX				
PR	09-JUL-2001;	2001WO-US21735.	XX				
PR	16-JUN-1997;	97US-049787P.	XX				
PR	17-OCT-1997;	97US-062250P.	XX				
PR	12-NOV-1997;	97US-065186P.	XX				
PR	13-NOV-1997;	97US-065311P.	XX				
PR	24-NOV-1997;	97US-066770P.	XX				
PR	25-FEB-1998;	98US-075945P.	XX				
PR	20-MAR-1998;	98US-078910P.	XX				
PR	28-APR-1998;	98US-083322P.	XX				
PR	07-MAY-1998;	98US-084600P.	XX				
PR	28-MAY-1998;	98US-087106P.	XX				
PR	02-JUN-1998;	98US-087607P.	XX				
PR	02-JUN-1998;	98US-087609P.	XX				
PR	02-JUN-1998;	98US-087759P.	XX				
PR	03-JUN-1998;	98US-087827P.	XX				
PR	04-JUN-1998;	98US-088021P.	XX				
PR	04-JUN-1998;	98US-088025P.	XX				
PR	04-JUN-1998;	98US-088026P.	XX				
PR	04-JUN-1998;	98US-088028P.	XX				
PR	04-JUN-1998;	98US-088029P.	XX				
PR	04-JUN-1998;	98US-088030P.	XX				
PR	04-JUN-1998;	98US-088033P.	XX				
PR	04-JUN-1998;	98					

Db 241 RLSEEEFGFRIGNEVRGRKAAM 265

RESULT 13

AAG89176

ID AAG89176 standard; Protein; 247 AA.

XX

AC AAG89176;

XX

DT 11-SEP-2001 (first entry)

XX

DE Human secreted protein, SEQ ID NO: 296.

XX

KW Human; secreted protein; gene therapy; vaccine; treatment; diagnosis;

KW GENSET.

XX

OS Homo sapiens.

XX

PN WO200142451-A2.

XX

PD 14-JUN-2001.

XX

PF 07-DEC-2000; 2000WO-IB01938.

XX

PR 08-DEC-1999; 99US-0169629.

PR

PR 06-MAR-2000; 2000US-0187470.

XX

PA (GEST) GENSET.

XX

PI Dumas Milne Edwards J, Bougueleret L, Jobert S;

PI

PI WPI; 2001-367870/38.

DR

DR N-PSDB; AAH64779.

XX

XX

PT Full length GENSET human nucleic acids encoding potentially secreted

PT proteins, useful in gene therapy and vaccination against a variety of

PT diseases, and for diagnosis of those diseases -

XX

XX Claim 21; Page 827-828; 921pp; English.

PS

CC The invention relates to full length GENSET human nucleic acids encoding

CC potentially secreted proteins. The nucleic acids and the polypeptides

CC they encode may be used in the prevention, treatment and diagnosis of

CC diseases associated with inappropriate GENSET gene expression. For

CC example, they be used to treat disorders associated with decreased

CC GENSET gene expression by rectifying mutations or deletions in a

CC patient's genome that affect the activity of GENSET or by supplementing

CC the patient's own production of GENSET polypeptides. Conversely,

CC antisense nucleic acid molecules may be administered to down regulate

CC GENSET expression by binding with the cells' own genes and preventing

CC their expression. The sense and antisense nucleic acids may also be

CC used as DNA probes in diagnostic assays to detect and quantitate the

CC presence of similar nucleic acid sequences in samples, and hence to

CC determine which patients may be in need of restorative therapy.

CC The GENSET polypeptides may be used as antigens in the production of

CC antibodies and in assays to identify modulators (agonists and

CC antagonists) of GENSET polypeptide expression and activity. The

CC present sequence is a GENSET polypeptide of the invention.

XX

XX Sequence 247 AA;

SQ

Query Match 81.5%; Score 1149; DB 22; Length 247;

Best Local Similarity 100.0%; Pred. No. 1.6e-105;

Matches 215; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEFPKGRWVLTCCAPQPPPPITY 60

Db 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEFPKGRWVLTCCAPQPPPPITY 60

QY 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

Db 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHROPA 180

Db 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHROPA 180

QY 181 NFSFLPSQTSDFWFCQAANNANVQHSALTIVVPPGG 215

Db 181 NFSFLPSQTSDFWFCQAANNANVQHSALTIVVPPGG 215

RESULT 14

AAM24472

ID AAM24472 standard; Protein; 232 AA.

XX

AC AAM24472;

XX

DT 12-OCT-2001 (first entry)

XX

DE Human EST encoded protein SEQ ID NO: 1997.

XX

KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;

KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;

KW diagnostics; forensic test; gene mapping; genetic disorder;

KW biodiversity; gene therapy; nutrition.

XX

OS Homo sapiens.

XX

PN WO200154477-A2.

XX

PD 02-AUG-2001.

XX

PF 25-JAN-2001; 2001WO-US02687.

XX

PR 25-JAN-2000; 2000US-0491404.

PR

PR 17-JUL-2000; 2000US-0617746.

PR

PR 03-AUG-2000; 2000US-0631451.

PR

PR 15-SEP-2000; 2000US-0663870.

XX

PA (HYSE-) HYSBQ INC.

XX

XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;

PI Cao Y, Drmanac RA, Zhang J, Werhman T;

XX

DR WPI; 2001-476164/51.

DR

DR N-PSDB; AAH99131.

XX

PT Isolated polypeptide for treatment of diseases, diagnostics, raising

PT antibodies and research use -

XX

PS Claim 20; Page 1266; 1275pp; English.

XX

CC The present invention provides the protein and coding sequences of novel

CC proteins from a variety of organisms, including human, dog, cat, horse,

CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea

CC urchin and tomato. These were derived from expressed sequence tags (ESTs)

CC from the organism of interest. They can be used in diagnostics,

CC forensics, gene mapping, identification of mutations, to assess

CC biodiversity and for nutritional purposes. The present sequence is a

CC protein of the invention.

XX

XX Sequence 232 AA;

SQ

Query Match 51.5%; Score 725.5; DB 22; Length 232;

Best Local Similarity 64.3%; Pred. No. 1.6e-63;

Matches 148; Conservative 13; Mismatches 56; Indels 13; Gaps 3;

QY 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEFPKGRWVLTCCAPQPPPPITY 60

Db 1 MGLPGLFCLAVLAASSFSKAREEETIPVVSIAKYKLVLEFPKGRWVLTCCAPQPPPPITY 60

QY 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

Db 61 SLCGTKNIKVAKKVKTTPASFNLTLSKSSPDLITYFCRASSTSGAHVDSARLQHWHE 120

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QY 121 LWSKPVSELNFTLDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHRA 180
Db 121 LWSRQRG-----RPQGGDDLPGLVGLQTYHQQPDREGWAGPPAAETWPFQACQLSPS 172
QY 181 NFSFLPSQTSDFWFCQANNANVQHSALTIV-VFPGDQKMDWQGPLESP 229
Db 173 ----CRARHTWFCQACKQRCQSSTAPSQWLPGVVTQKMDWQGPPEP 218

RESULT 15
ABJ19682
ID ABJ19682 standard; Protein; 235 AA.
XX
AC ABJ19682;
XX
DT 03-APR-2003 (first entry)
DE
DE Human secreted protein amino acid sequence - SEQ ID NO 148.
XX
XX Human; protein therapy; immediate hypersensitivity disease;
KW allergic disorder; asthmatic disorder; gene therapy; secreted protein;
KW hay fever; allergic conjunctivitis; allergic rhinitis;
KW binding partner identification; chromosome identification;
KW radiation hybrid mapping; long-range restriction mapping.
XX
OS Homo sapiens.
XX
PN WO200277186-A2.
XX
PD 03-OCT-2002.
XX
XX 26-MAR-2002; 2002WO-US09239.
XX
PR 27-MAR-2001; 2001US-278650P.
PR 12-SEP-2001; 2001US-0950082.
PR 12-SEP-2001; 2001US-0950083.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2003-175010/17.
XX
XX Use of human secreted proteins and nucleic acids for preparing a
PT diagnostic or pharmaceutical composition for diagnosing or treating
PT allergic or asthmatic disorders, e.g. asthma, hay fever, or allergic
PT conjunctivitis or rhinitis -
XX
PS Claim 1; Page 632-633; 823pp; English.
XX
XX The invention comprises the amino acid and coding sequences of human
CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for the diagnosis and treatment of allergic disorders, asthmatic
CC disorders and immediate hypersensitivity diseases (e.g. hay fever,
CC allergic conjunctivitis and allergic rhinitis). The proteins of the
CC invention are also useful for identifying a binding partner. The nucleic
CC acids of the invention are also useful for chromosome identification.
CC radiation hybrid mapping or long-range restriction mapping. The present
CC amino acid sequence represents a human secreted protein of the invention.
XX
SQ Sequence 235 AA;
Query Match 46.5%; Score 654.5; DB 24; Length 235;
Best Local Similarity 59.3%; Pred. No. 1.8e-56;
Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;

QY 1 MGLPGLFCLAVLAASFSKAREEITPVVSIAYKVLVFPFKGRWVLTCCAPQPPPIY 60
Db 1 MGLPGLFCLAVLAASFSKAREEITPVVSIAYKVLVFPFKGRWVLTCCAPQPPPIY 60
QY 61 SLCGTKNIKAKVKVKTHTHEPASFNLVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120
Db 61 SLCGTKNIKAKVKVKTHTHEPASFNLVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWHE 120

```

```

QY 121 LMSKPVSELNFTLDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLQORPCHR--- 177
Db 121 LMSR-----QGRFQGGDDLPGVLGQPTYHQQPDREGWA 154
QY 178 -OPANFSLPSQTSDFWFCQANNANVQHSALTIVFPFGDQKMDWQGPLESFILALPLY 236
Db 155 GPPA-----AETMFOAACQLLLPAEPDGLVLV--PGCKR-----QCPAQRPHSGAP-- 200
QY 237 RSTRRLSE 244
Db 201 ---RRVKQ 205

RESULT 16
ABP99572
ID ABP99572 standard; Protein; 235 AA.
XX
AC ABP99572;
XX
DT 26-MAR-2003 (first entry)
XX
DE Human secreted protein SEQ ID NO 516.
XX
XX Human; secreted protein; nootropic; neuroprotective; cytostatic;
KW virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;
KW vulnery; antibacterial; antiparkinsonian; anticlacking; antianemic;
KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
KW antiinflammatory; antiallergic; antidiabetic; antilulcer; anticonvulsant;
KW antifungal; antiparasitic; cardiant; immune disorder; infection; vaccine;
KW cardiovascular disorder; neurological disease; nephrotropic;
KW gene therapy.
XX
XX Homo sapiens.
XX
XX WO200277186-A2.
XX
XX 03-OCT-2002.
XX
XX 26-MAR-2002; 2002WO-US09188.
XX
XX 27-MAR-2001; 2001US-278650P.
PR 12-SEP-2001; 2001US-0950082.
PR 12-SEP-2001; 2001US-0950083.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
PI
PI WPI; 2003-040583/03.
DR N-PSDB; AB266993.
XX
XX New human secreted proteins encoded by genes contained in cDNA clones
PT (e.g. HGCAC19), useful for preventing, treating or diagnosing e.g.
PT AIDS, multiple sclerosis, herpes virus, leukemia, tick-borne
PT encephalitis or West Nile fever -
XX
PS Claim 1; Page 1422; 2423pp; English.
XX
XX The invention relates to novel human genes (ABZ66891-ABZ68209) and the
CC encoded secreted proteins (ABP99470-ABP99872) useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The genes are isolated from a range of human tissues disclosed
CC in the specification. The nucleic acids, proteins, antibodies and
CC (antagonists are useful in the diagnosis, treatment and prevention of:
CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the
CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
CC lung or urogenital; (b) immune disorders e.g. Addison's disease,
CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.
CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,

```

CC bacterial, fungal and parasitic infections.
 XX Sequence 235 AA;
 SQ
 Query Match 46.5%; Score 654.5; DB 24; Length 235;
 Best Local Similarity 59.3%; Pred. No. 1.8e-56;
 Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;
 QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60
 QY 61 SLGCTKNIKVAKVKVTHEPASFNLTLSKSPDLLTYFCRASSTGAHVDSARLQHWHE 120
 Db 61 SLGCTKNIKVAKVKVTHEPASFNLTLSKSPDLLTYFCRASSTGAHVDSARLQHWHE 120
 QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPFITNSLIGKDGQGVHLQQRPCHR-- 177
 Db 121 LWSR-----QGRPGQGGDLPGVLGQTYHQPDREGWA 154
 QY 178 -QANFSLPSQTSDFWFCQANNANVQHSALTVPFGGQKQMEDWGQPLESPILALPLY 236
 Db 155 GPPA-----AETMPQAAQCLLPAPEDIGLVV--PGCKQR-----QCPAQRPHSGAP-- 200
 QY 237 RSTRRLSE 244
 Db 201 ---RRVXQ 205

RESULT 17
 AAB39216
 ID AAB39216 standard; Protein; 236 AA.
 XX
 AC AAB39216;
 XX
 DT 02-FEB-2001 (first entry)
 XX
 DE Human secreted protein sequence encoded by gene 38 SEQ ID NO:96.
 XX
 KW Human; secreted protein; immunosuppressive; antiarthritic; antirheumatic;
 KW antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective;
 KW neotopic; neuroprotective; antibacterial; virucide; fungicide; neoplasm;
 KW ophthalmological; autoimmune disease; rheumatoid arthritis; angiogenesis;
 KW hyperproliferative disorder; cardiovascular disorder; infection;
 KW cerebrovascular disorder; nervous system disorder; ocular disorder;
 KW wound healing; chemotaxis.
 XX
 OS Homo sapiens.
 XX
 PN W0200056754-A1.
 XX
 PD 28-SEP-2000.
 XX
 PF 16-MAR-2000; 2000WO-US06792.
 XX
 PR 19-MAR-1999; 99US-0125362.
 PR 10-DEC-1999; 99US-0169980.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen GA, Ruben SM, Komatsoulis G;
 XX
 DR WPI; 2000-579483/54.
 DR N-PSDB; AAC74260.
 XX
 PT Isolated nucleic acid molecule encoding a human secreted protein is
 PT used in preventing, treating or ameliorating a medical condition -
 XX
 PS Claim 11; Page 386-387; 434pp; English.

XX The polynucleotide sequences given in AAC74223-C74279 encode the human
 CC secreted proteins represented in AAB39179-B39226. Sequences
 CC AAB39227-B39308 are alternative proteins encoded by the genes, and also

CC protein sequences with which they share homology. The proteins have
 CC activities based on the tissues and cells in which they are expressed.
 CC Examples of activities include: immunosuppressive; antiarthritic;
 CC antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;
 CC cerebroprotective; neotopic; neuroprotective; antibacterial; virucide;
 CC fungicide; and ophthalmological. The human secreted proteins,
 CC polynucleotides, antagonists and agonists of the invention may be useful
 CC in the treatment, prevention, and/or diagnosis of various disease,
 CC disorders and conditions such as autoimmune diseases e.g. rheumatoid
 CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
 CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
 CC disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders
 CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and
 CC fungi and ocular disorders e.g. corneal infection. The polypeptides can
 CC also be used to aid wound healing and epithelial cell proliferation, to
 CC regenerate tissues, maintain organs before transplantation, in
 CC chemotaxis and as a food additive or preservative e.g. to increase
 CC storage capabilities. Sequences AAC74214-C74222 and AAB39178 are used
 CC during the isolation and characterisation of the genes of the invention.
 XX
 SQ Sequence 236 AA;

Query Match 46.5%; Score 654.5; DB 21; Length 236;
 Best Local Similarity 59.3%; Pred. No. 1.8e-56;
 Matches 147; Conservative 10; Mismatches 44; Indels 47; Gaps 6;
 QY 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60
 Db 1 MGLPGLFCLAVLAASSFSKAREEITPVVSIAYKVLVFPKGRWVLTCCAPQPPPPITY 60
 QY 61 SLGCTKNIKVAKVKVTHEPASFNLTLSKSPDLLTYFCRASSTGAHVDSARLQHWHE 120
 Db 61 SLGCTKNIKVAKVKVTHEPASFNLTLSKSPDLLTYFCRASSTGAHVDSARLQHWHE 120
 QY 121 LWSKPVSELNFTLQDRGAGPRVEMICQASSGSPFITNSLIGKDGQGVHLQQRPCHR-- 177
 Db 121 LWSR-----QGRPGQGGDLPGVLGQTYHQPDREGWA 154
 QY 178 -QANFSLPSQTSDFWFCQANNANVQHSALTVPFGGQKQMEDWGQPLESPILALPLY 236
 Db 155 GPPA-----AETMPQAAQCLLPAPEDIGLVV--PGCKQR-----QCPAQRPHSGAP-- 200
 QY 237 RSTRRLSE 244
 Db 201 ---RRVXQ 205

RESULT 18
 AAU21256
 ID AAU21256 standard; Protein; 175 AA.
 XX
 AC AAU21256;
 XX
 DT 17-DEC-2001 (first entry)
 XX
 DE Human novel foetal antigen, SEQ ID NO 1500.
 XX
 KW Human; foetal tissue antigen; antiinflammatory; neuroprotective;
 KW immunomodulator; cardiovascular; cytostatic; nephrothropic;
 KW cardiovascular; autoimmune disease; rheumatoid arthritis;
 KW hyperproliferative disorder; breast neoplasm; cancer;
 KW cardiovascular disorder; cardiac arrest; cerebrovascular disorder;
 KW cerebral ischaemia; angiogenesis; nervous system disorder;
 KW Alzheimer's disease; infection; ocular disorder; corneal infection;
 KW wound healing; epithelial cell proliferation; food additive.
 XX
 OS Homo sapiens.
 XX
 PN W0200155312-A2.
 XX
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US01321.

XX PR 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218290.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.
 PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225266.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225277.
 PR 14-AUG-2000; 2000US-0225757.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 18-AUG-2000; 2000US-0226279.
 PR 22-AUG-2000; 2000US-0226681.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228924.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 05-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 06-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231242.
 PR 08-SEP-2000; 2000US-0231243.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-0232080.
 PR 08-SEP-2000; 2000US-0232081.
 PR 12-SEP-2000; 2000US-0231968.
 PR 14-SEP-2000; 2000US-0232397.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232399.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0232401.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 21-SEP-2000; 2000US-0234223.
 PR 21-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234997.
 PR 25-SEP-2000; 2000US-0234998.
 PR 26-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235634.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 29-SEP-2000; 2000US-0236370.

PR 02-OCT-2000; 2000US-0236802.
 PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 02-OCT-2000; 2000US-0237040.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240960.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 20-OCT-2000; 2000US-0241787.
 PR 20-OCT-2000; 2000US-0241808.
 PR 20-OCT-2000; 2000US-0241809.
 PR 20-OCT-2000; 2000US-0241826.
 PR 01-NOV-2000; 2000US-0244617.
 PR 08-NOV-2000; 2000US-0246474.
 PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0248524.
 PR 08-NOV-2000; 2000US-0248525.
 PR 08-NOV-2000; 2000US-0248526.
 PR 08-NOV-2000; 2000US-0248527.
 PR 08-NOV-2000; 2000US-0248528.
 PR 08-NOV-2000; 2000US-0248532.
 PR 08-NOV-2000; 2000US-0248609.
 PR 08-NOV-2000; 2000US-0248610.
 PR 08-NOV-2000; 2000US-0248611.
 PR 08-NOV-2000; 2000US-0248613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
 PR 17-NOV-2000; 2000US-0249209.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249212.
 PR 17-NOV-2000; 2000US-0249213.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249244.
 PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249246.
 PR 17-NOV-2000; 2000US-0249265.
 PR 17-NOV-2000; 2000US-0249297.
 PR 17-NOV-2000; 2000US-0249299.
 PR 17-NOV-2000; 2000US-0249300.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.
 PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251868.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.

XX (HUMA-) HUMAN GENOME SCI INC.
 XX PA
 XX PI Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-488782/53.
 DR N-PSDB; AAS34076.
 XX PT New polynucleotides and polypeptides for diagnosing, treating,

PT preventing or prognosing e.g. diseases or disorders of the nervous,
 PT musculoskeletal, excretory, gastrointestinal, reproductive, and
 XX respiratory systems -
 PS Claim 11; SEQ ID No 1500; 642pp; English.
 XX The invention relates to novel nucleic acids encoding novel human foetal
 CC antigens. The nucleic acids and proteins are used to prevent, treat (e.g.
 CC by gene therapy) or ameliorate a medical condition in e.g. humans, mice,
 CC rabbits, goats, horses, cats, dogs, chickens or sheep. They
 CC are also used in diagnosing a pathological condition or susceptibility
 CC to a pathological condition. The antibodies to the antigens can also
 CC be used in alleviating symptoms associated with the disorders and in
 CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked
 CC immunosorbent assays (ELISA). Disorders which are enzyme linked
 CC include autoimmune diseases e.g. rheumatoid arthritis,
 CC hyperproliferative disorders e.g. neoplasms of the breast or liver,
 CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders
 CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.
 CC Alzheimer's disease, infections caused by bacteria, viruses and fungi
 CC and ocular disorders e.g. corneal infection. The polypeptides can also
 CC be used to aid wound healing and epithelial cell proliferation, to
 CC prevent skin aging due to sunburn, to maintain organs before
 CC transplantation, for supporting cell culture of primary tissues, to
 CC regenerate tissues and in chemotaxis. The polypeptides can also be used
 CC as a food additive or preservative to increase or decrease storage
 CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,
 CC minerals, cofactors and other nutritional components. Numerous
 CC examples of diseases and disorders treated by the nucleic acids and
 CC proteins are given in the specification. The present sequence

Query Match 45.1%; Score 636; DB 22; Length 175;
 Best Local Similarity 96.0%; Pred. No. 8.2e-55;
 Matches 120; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 18 SKAREEITPVSIAYKLVFVFKGRWVLTCCAPQPPPIITVSLCCTKNIKVAKKVKT 77
 Db :::
 48 SQSPLEITPVSIAYKLVFVFKGRWVLTCCAPQPPPIITVSLCCTKNIKVAKKVKT 107
 QY 78 HEPASFNVLTKSSPDLLTYFCRASSTGAHVDSARLQHWELWSPVSELNFTLQD 137
 Db :::
 108 HEPASFNVLTKSSPDLLTYFCRASSTGAHVDSARLQHWELWSPVSELNFTLQD 167
 QY 138 RGAGP 142
 Db ::::::::::
 168 RGAGP 172

RESULT 19
 AAB82313
 ID AAB82313 standard; Protein; 759 AA.
 XX
 AC AAB82313;
 XX

DT 23-JUL-2001 (first entry)

XX Human immunoglobulin receptor isoform IRTA2a.

XX Immunoglobulin superfamily receptor translocation associated; IRTA;
 KW IRTA2a; human; immunoglobulin receptor; Fc receptor; melanoma;
 KW lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21;
 KW diagnosis; therapy.
 XX

OS Homo sapiens.

XX Key Location/Qualifiers
 PH Peptide 1..15

FT /label= Signal_peptide

FT Protein 16..759

FT /label= Mature_protein

FT Modified-site 132..134

FT /note= "Asn is N-glycosylated"

FT Modified-site 383..385

FT /note= "Asn is N-glycosylated"
 FT Modified-site 621..623
 FT /note= "Asn is N-glycosylated"
 FT Modified-site 631..633
 FT /note= "Asn is N-glycosylated"
 FT Modified-site 714..716
 FT /note= "Asn is N-glycosylated"

XX WO200138490-A2.

XX 31-MAY-2001.

XX 28-NOV-2000; 2000WO-US32403.

XX 29-NOV-1999; 99US-0168151.

XX (UYCO) UNIV COLUMBIA NEW YORK.

XX Dalla-Favera R;

XX WPI; 2001-355921/37.

XX N-PSDB; AAF30950.

XX New genes encoding immunoglobulin receptor, Immunoglobulin super
 PT Receptor Translocation Associated proteins, used to treat B cell
 PT malignancies including lymphomas and multiple myeloma -

XX Claim 3; Fig 18B-1-18B-2; 72pp; English.

XX The present sequence is that of the novel human immunoglobulin
 CC receptor, immunoglobulin superfamily receptor translocation
 CC associated protein isoform 2a (IRTA2a), an Fc receptor involved in
 CC the pathogenesis of lymphoma and melanoma. Efforts to identify
 CC genes involved in chromosomal aberrations affecting band 1q21 in
 CC multiple myeloma and B cell lymphoma led to the discovery of IRTA2
 CC and IRTA1 (see AAB82312) as founding members of a novel subfamily
 CC of related receptors within the immunoreceptor family. The IRTA2
 CC locus is transcribed into 3 major mRNA isoforms, IRTA2a, IRTA2b and
 CC IRTA2c (see also AAB82314 and AAB82315). IRTA2a is a 759 amino
 CC acid secreted glycoprotein with 8 Ig-type domains followed by a
 CC unique C-terminus. IRTA2b diverges from IRTA2a at residue 560,
 CC extending for a further 32 residues. IRTA2c diverges from IRTA2a at
 CC residue 746 and extends for a further 231 residues. The IRTA2a
 CC display a specific pattern of expression in mature B cells. IRTA2
 CC is expressed in GC centrocytes and in perifollicular cells, which may
 CC include immunoblasts and memory cells. The invention provides IRTA
 CC nucleic acids and proteins, and antibodies directed to an epitope
 CC of an IRTA protein. Methods are claimed for: detecting a B cell
 CC malignancy comprising a 1q21 chromosomal rearrangement using a
 CC nucleic acid molecule that specifically hybridises with a unique
 CC sequence of human IRTA1-5; and treating a subject having a B
 CC cell cancer by administering an anti-IRTA antibody or an antisense
 CC oligonucleotide that specifically hybridises to IRTA mRNA so as
 CC to prevent overexpression of IRTA protein and hence to arrest
 CC cell growth or induce cell death of cancer cells expressing IRTA.
 CC The B cell cancer is selected from B cell lymphoma, mantle cell
 CC lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone
 CC lymphoma, diffuse large cell lymphoma and follicular lymphoma. The
 CC B cell lymphoma is selected from mucosa-associated-lymphoid tissue
 CC B cell lymphoma or non-Hodgkin's lymphoma.

XX Sequence 759 AA;

Query Match 8.1%; Score 114.5; DB 22; Length 759;
 Best Local Similarity 25.1%; Pred. No. 0.038;

Matches 57; Conservative 40; Mismatches 105; Indels 25; Gaps 11;

QY 13 AASSFSKAREEITPVSIAYK----VLFVFKGRWVLTCCAPQPPPIITVSLC 63

Db 543 ADNGFGQPSSEVSVLFTVFSRPIITLKV-PRQAQVGGDLLEHCEARGSPPIIWFY 601

QY 64 GTKNIKVAKKVYKTHEPASFNVLTKSSPDLLTYFCRASSTGA-HVDSARLQHWELW 122

Db 602 - HEDVTLGSSAPSGGSEAFNLSLTAHSGN---YSCENANGLVAQHSHTISLSVIVPV- 656
QY 123 SKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQQRPCHPQANF 182
Db 657 SRPILTFRA--PRAQAVVGDLELHCEALRGSSPILYWFYHEDVTLGKISAP-SGGGASF 713
QY 183 SF-LPSQTSDFWFCQAANNANVQHSALTVPVPGDDQKMDWQGPLES 228
Db 714 NLSLTTEHSGIYSCADNGLEAQRSEMTLKVAG-----EWALPTSS 755

RESULT 20
AAB82315
ID AAB82315 standard; Protein; 977 AA.
AC AAB82315;
XX
DT 23-JUL-2001 (first entry)
XX Human immunoglobulin receptor isoform IRTA2c.
DE
XX Immunoglobulin superfamily receptor translocation associated; IRTA;
KW IRTA2c; human; immunoglobulin receptor; Fc receptor; melanoma;
KW lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21;
KW diagnosis; therapy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..15
FT /label= Signal_peptide
FT Protein 15..977
FT /label= Mature_protein
FT Domain 851..873
FT /note= "transmembrane domain"
FT Modified-site 132..134
FT /note= "Asn is N-glycosylated"
FT Modified-site 383..385
FT /note= "Asn is N-glycosylated"
FT Modified-site 621..623
FT /note= "Asn is N-glycosylated"
FT Modified-site 631..633
FT /note= "Asn is N-glycosylated"
FT Modified-site 714..716
FT /note= "Asn is N-glycosylated"
FT Modified-site 795..797
FT /note= "Asn is N-glycosylated"
FT Modified-site 806..808
FT /note= "Asn is N-glycosylated"
FT Modified-site 816..818
FT /note= "Asn is N-glycosylated"
FT Modified-site 843..845
FT /note= "Asn is N-glycosylated"
FT Binding-site 899..902
FT /note= "putative consensus Src-homology 2 (SH2) binding domain"
FT Binding-site 924..927
FT /note= "putative consensus Src-homology 2 (SH2) binding domain"
FT Binding-site 954..957
FT /note= "putative consensus Src-homology 2 (SH2) binding domain"
XX
PN WO200138490-A2.
XX
XX 31-MAY-2001.
XX
XX 28-NOV-2000; 2000WO-US32403.
XX
XX 29-NOV-1999; 99US-0168151.
XX
XX (UYCO) UNIV COLUMBIA NEW YORK.

PI Dalla-Favera R;
XX WPI: 2001-355921/37.
DR N-PSDB; AAF30952.
XX
FT New genes encoding immunoglobulin receptor, Immunoglobulin super
FT Receptor Translocation Associated proteins, used to treat B cell
FT malignancies including lymphomas and multiple myeloma -
XX
PS Claim 3; Fig 18B-1-18B-2; 72pp; English.
XX
CC The present sequence is that of the novel human immunoglobulin
CC receptor, immunoglobulin superfamily receptor translocation
CC associated protein isoform 2c (IRTA2c), an Fc receptor involved in
CC the pathogenesis of lymphoma and melanoma. Efforts to identify
CC genes involved in chromosomal aberrations affecting band 1q21 in
CC multiple myeloma and B cell lymphoma led to the discovery of IRTA2
CC and IRTA1 (see AAB82312) as founding members of a novel subfamily
CC of related receptors within the immunoreceptor family. The IRTA2
CC locus is transcribed into 3 major mRNA isoforms, IRTA2a, IRTA2b and
CC IRTA2c (see also AAB82313 and AAB82314). IRTA2c is the longest
CC isoform. It is a type I transmembrane glycoprotein. Each SH2
CC binding site agrees with the immune receptor tyrosine-based inhibition
CC motif (ITIM) consensus and is encoded by a separate exon. The IRTA
CC genes display a specific pattern of expression in mature B cells.
CC IRTA2 is expressed in GC centrocytes and in perifollicular cells,
CC which may include immunoblasts and memory cells. The invention
CC provides IRTA nucleic acids and proteins, and antibodies directed to
CC epitopes of IRTA proteins. Methods are claimed for: detecting a B
CC cell malignancy comprising a 1q21 chromosomal rearrangement using a
CC nucleic acid molecule that specifically hybridises with a unique
CC sequence of human IRTA1-5; and treating a subject having a B
CC cell cancer by administering an anti-IRTA antibody or an antisense
CC oligonucleotide that specifically hybridises to IRTA mRNA so as
CC to prevent overexpression of IRTA protein and hence to arrest
CC cell growth or induce cell death of cancer cells expressing IRTA.
CC The B cell cancer is selected from B cell lymphoma, mantle cell
CC lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone
CC lymphoma, diffuse large cell lymphoma and follicular lymphoma. The
CC B cell lymphoma is selected from mucosa-associated-lymphoid tissue
CC B cell lymphoma or non-Hodgkin's lymphoma.
XX
SQ Sequence 977 AA;
Query Match 7.8%; Score 110.5; DB 22; Length 977;
Best Local Similarity 24.6%; Pred. No. 0.13;
Matches 57; Conservative 41; Mismatches 105; Indels 29; Gaps 11;
QY 13 AASSFSKAREBEITPVVSIAYK----VLEVPKGRWVL-----ITCCAPQPPPTIYSLC 63
Db 543 ADNGFGPQRSEVSLFVTPVPSRPILTLRV-PRAQAVVGDLELHCEAPRGSPILYWFY 601
QY 64 GTKNLKVAKVKVKTPEPASFNLNVLTKSSPDLITVFCRASSTSGA-HVDSARLOMHWEI 122
Db 602 -HEDVTLGSSAPSGGSEAFNLSLTAHSGN---YSCENANGLVAQHSHTISLSVIVPV- 656
QY 123 SKPVSELRANFTLQDRGAGPRVEMICQASSGSPPTNSLIGKDGQVHLQQRPCHPQANF 182
Db 657 SRPILTFRA--PRAQAVVGDLELHCEALRGSSPILYWFYHEDVTLGKISAP-SGGGASF 713
QY 183 SF-LPSQTSDFWFCQAANNANVQHSALTVPVPGDDQKMDWQGPLES 228
Db 714 NLSLTTEHSGIYSCADNGLEAQRSEMTLKVAG-----EWALPTSS 756

RESULT 21
AAB82317
ID AAB82317 standard; Protein; 508 AA.
XX
XX AAB82317;
XX
DT 23-JUL-2001 (first entry)
XX

Human immunoglobulin receptor IRTA4 protein.

Immunoglobulin superfamily receptor translocation associated; IRTA4; human; immunoglobulin receptor; Fc receptor; melanoma; lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21; diagnosis; therapy.

Homo sapiens.

WO200138490-A2.
31-MAY-2001.
28-NOV-2000; 2000WO-US32403.
29-NOV-1999; 99US-0168151.
(UYCO) UNIV COLUMBIA NEW YORK.
Dalla-Favera R;
WPI; 2001-355921/37.
N-PSTDB; AAF30954.

New genes encoding immunoglobulin receptor, Immunoglobulin super Receptor Translocation Associated proteins, used to treat B cell malignancies including Lymphomas and multiple myeloma -
Claim 5; Fig 18D-1-18D-2; 72pp; English.

The present sequence is that of the novel human immunoglobulin receptor, immunoglobulin superfamily receptor translocation associated protein 4 (IRTA4), an Fc receptor involved in the pathogenesis of lymphoma and melanoma. Efforts to identify genes involved in chromosomal aberrations affecting band 1q21 in multiple myeloma and B cell lymphoma led to the discovery of IRTA1 and IRTA2 receptors within the immunoreceptor family. 3 Additional proteins, IRTA3, IRTA4 and IRTA5 (see AAB82316-18), were subsequently identified, which are also members of this novel subfamily. The IRTA genes display a specific pattern of expression in mature B cells. IRTA4 is selectively expressed in mantle zone C cells, the pre-GC compartment of mature B cells. The invention provides IRTA nucleic acids, proteins, and antibodies directed to epitopes of IRTA proteins. Methods are claimed for detecting a B cell malignancy comprising a 1q21 chromosomal rearrangement using a nucleic acid molecule that specifically hybridizes with a unique sequence of human IRTA1-5; and treating a subject having a B cell cancer by administering an anti-IRTA antibody or an antisense oligonucleotide that specifically hybridises to IRTA mRNA so as to prevent overexpression of IRTA protein and hence to arrest cell growth or induce cell death of cancer cells expressing IRTA. The B cell cancer is selected from B cell lymphoma, mantle cell lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone lymphoma, diffuse large cell lymphoma and follicular lymphoma. The B cell lymphoma is selected from mucosa-associated-lymphoid tissue B cell lymphoma or non-Hodgkin's lymphoma.

SQ Sequence 508 AA;

Query Match 7.5%; Score 105; DB 22; Length 508;
Best Local Similarity 26.3%; Pred. No. 0.19;
Matches 61; Conservative 27; Mismatches 96; Indels 48; Gaps 11;

DY 41 KGRWLITCCAPPPPTITS----LCGKNIKAVKKVKTHPEASPNLNTLKSPDLL 96
218 EGKLILCSVAGGTGVTFWEATCTSMGK-----KTQSLSAELEIPAKVESDAG 271
97 TYFCRASSTGAHVDSARQLQHMLWSK-----PVSELRAFTLOQRGA---GPVR 144
272 KYCRADNG-----HVPISQKVNIPIRVFVS--RPVLTRPSCAAAVGDLI 317
145 EMIQAASSGGPPTINSIGKGQQHLQORPCHPANFSF-LPSQTSDFWQCANNANY 203

DE XX Human immunoglobulin receptor IRTA4 protein.
KW XX Immunoglobulin superfamily receptor translocation associated;
KW IRTA4; human; immunoglobulin receptor; Fc receptor; melanoma;
KW lymphoma; myeloma; B cell malignancy; cancer; chromosome 1q21;
KW diagnosis; therapy.
XX Homo sapiens.
OS OS WO200138490-A2.
XX PN 31-MAY-2001.
XX PD 28-NOV-2000; 2000WO-US32403.
XX PF 29-NOV-1999; 99US-0168151.
XX PR (UYCO) UNIV COLUMBIA NEW YORK.
PA PA Dalla-Favera R;
PI PI WPI; 2001-355921/37.
DR DR N-PSTDB; AAF30954.
DX DX New genes encoding immunoglobulin receptor, Immunoglobulin super
PT PT Receptor Translocation Associated proteins, used to treat B cell
PT PT malignancies including Lymphomas and multiple myeloma -
PX PX Claim 5; Fig 18D-1-18D-2; 72pp; English.
XX CC The present sequence is that of the novel human immunoglobulin
CC CC receptor, immunoglobulin superfamily receptor translocation
CC CC associated protein 4 (IRTA4), an Fc receptor involved in the
CC CC pathogenesis of lymphoma and melanoma. Efforts to identify genes
CC CC involved in chromosomal aberrations affecting band 1q21 in multiple
CC CC myeloma and B cell lymphoma led to the discovery of IRTA1 and IRTA2
CC CC receptors within the immunoreceptor family. 3 Additional proteins,
CC CC IRTA3, IRTA4 and IRTA5 (see AAB82316-18), were subsequently
CC CC identified, which are also members of this novel subfamily. The
CC CC IRTA genes display a specific pattern of expression in mature B
CC CC cells. IRTA4 is selectively expressed in mantle zone C cells, the
CC CC pre-GC compartment of mature B cells. The invention provides IRTA
CC CC nucleic acids, proteins, and antibodies directed to epitopes of
CC CC IRTA proteins. Methods are claimed for detecting a B cell malignancy
CC CC comprising a 1q21 chromosomal rearrangement using a nucleic acid
CC CC molecule that specifically hybridises with a unique sequence of
CC CC human IRTA1-5; and treating a subject having a B cell cancer by
CC CC administering an anti-IRTA antibody or an antisense oligonucleotide
CC CC that specifically hybridises to IRTA mRNA so as to prevent
CC CC overexpression of IRTA protein and hence to arrest cell growth or
CC CC induce cell death of cancer cells expressing IRTA. The B cell
CC CC cancer is selected from B cell lymphoma, mantle cell lymphoma,
CC CC multiple myeloma, Burkitt's lymphoma, marginal zone lymphoma,
CC CC diffuse large cell lymphoma and follicular lymphoma. The B cell
CC CC lymphoma is selected from mucosa-associated-lymphoid tissue B cell
CC CC lymphoma or non-Hodgkin's lymphoma.
XX SQ Sequence 508 AA;

Query Match 7.5%; Score 105; DB 22; Length 508;
Best Local Similarity 26.3%; Pred. No. 0.19;
Matches 61; Conservative 27; Mismatches 96; Indels 48; Gaps 11;

OY 41 KGRWLITCCAPPPPTITS----LCGKNIKAVKKVKTHPEASPNLNTLKSPDLL 96
Db 218 EGKLILCSVAGGTGVTFWEATCTSMGK-----KTQSLSAELEIPAKVESDAG 271
OY 97 TYFCRASSTGAHVDSARQLQHMLWSK-----PVSELRAFTLOQRGA---GPVR 144
Db 272 KYCRADNG-----HVPISQKVNIPIRVFVS--RPVLTRPSCAAAVGDLI 317
OY 145 EMIQAASSGGPPTINSIGKGQQHLQORPCHPANFSF-LPSQTSDFWQCANNANY 203

Db 318 ELHCALRGSPPLYQFYHEDVTLGNSNP-SGGGSASFNLSTAHSNGYSCEANNGLGA 378
OY 204 QHS-ALTUVPPGDQMDEM-----WQ--GPSPLIALPYRSTRRLSEE 245
Db 377 QCSEAVFVISGPDGYRRDLMTAGLVGLFGTGVALLLYALFHFKISGE 428

RESULT 22
AAZY27129 standard; Protein; 343 AA.
AC AAZ27129;
DT 14-SEP-1999 (first entry)
XX Human bone marrow-derived polypeptide (clone OAF038-Leu).
XX Brain tissue; human; bone marrow; umbilical cord venous endothelial cell
KW recombinant; diagnosis; treatment.
XX Homo sapiens.
FH Key Location/Qualifiers
FT Peptide 1..19
FT /note= "signal peptide"
FT Protein 20..343
FT /note= "mature protein"
XX WO9933873-A1.
XX 08-JUL-1999.
XX 25-DEC-1998; 98WO-JP05952.
PR 26-DEC-1997; 97JP-0358811.
XX (ONOV) ONO PHARM CO LTD.
XX Fukushima D, Shibayama S, Tada H;
XWI; 1999-419088/35.
NR PSTDB; AAX89116, AAX89117.
PT New adult human brain tissue-produced polypeptides useful for
diagnosis and treatment
XX Claim 1; Page 54-55; 86pp; Japanese.
XX The invention provides polypeptides (AAZ27127-Y27133) produced by human
adult brain tissue, human bone marrow or a human umbilical cord venous
endothelial cell. Host cells transformed with vectors comprising the
nucleic acids encoding the polypeptides are used for the recombinant
expression of the polypeptides. The polypeptides can be used in
diagnosis, treatment and basic studies, with wide applications in
treatment depending on the activity to be aimed at. Sequences
CC AAX89112-125 represent nucleic acids encoding the polypeptides.
XX SQ Sequence 343 AA;

Query Match 7.2%; Score 101.5; DB 20; Length 343;
Best Local Similarity 26.4%; Pred. No. 0.24;
Matches 55; Conservative 27; Mismatches 67; Indels 59; Gaps 13;

OY 37 EVFPKRWLIITTCAPPPPITYSL-----CGTKNIKAVKKVKTHPEASPNLNVTT-- 88
Db 44 KVVMKGNVMSFCSHKNKSIIQITYSLFRKRTHLTGTODGK-----GEPAINLSITEA 95
OY 89 LKSSPDLLTYFCRASSTS GAH-----VD SARLMHWELSKPVSELRAFTLOQRG 139
Db 96 HESGF----YCKRAQTVTSCKSRDFSTVIDPV-----TSPINIMVIQTETDR- 141
OY 140 AGPREVICQASSSGPPITTNSLIKDGQVHLOORPC-----HRPANFSFT----PSTSDW 192

FT Modified-site /note= "casein kinase phosphorylation site"
 FT 172..175
 FT Modified-site /note= "casein kinase phosphorylation site"
 FT 217..220
 FT Modified-site /note= "casein kinase phosphorylation site"
 FT 269..272
 FT Modified-site /note= "casein kinase phosphorylation site"
 FT 288..291
 FT Modified-site /note= "casein kinase phosphorylation site"
 FT 300..303
 FT Modified-site /note= "casein kinase phosphorylation site"
 FT 186..192
 FT Modified-site /note= "tyrosine kinase phosphorylation site"
 FT 306..313
 FT Modified-site /note= "tyrosine kinase phosphorylation site"
 FT 49..54
 FT Modified-site /note= "N-myristoylated"
 FT 77..82
 FT Modified-site /note= "N-myristoylated"
 FT 274..279
 FT Modified-site /note= "N-myristoylated"
 FT 293..298
 FT Modified-site /note= "N-myristoylated"
 FT 266..268
 FT Region /note= "cell attachment site"
 FT 228..249
 FT Peptide /note= "leucine zipper"
 XX
 PN W0200050443-A2.
 XX
 XX 31-AUG-2000.
 XX
 XX 25-FEB-2000; 2000WO-US05035.
 XX
 XX 26-FEB-1999; 99US-0259387.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 XX Fraser CC;
 XX
 DR WPI; 2000-533178/48.
 DR N-PSDB; AAA50441.
 XX
 XX Nucleic acids encoding TANGO 228, 240 and 243 pp. which have homology
 PT to the rat mast cell Ag-32, the Mycobacterium tuberculosis hypothetical
 PT protein Rv0712 and human phospholipase A2-activating protein -
 PT
 PS Claim 8; Fig 2; 189pp; English.
 XX
 XX The present sequence is that of human TANGO 228, a protein that
 CC includes 2 Ig domains and which has homology to rat MCA-32 (mast
 CC cell Ag-32), a cell surface antigen that is up-regulated in
 CC activated mast cells. The sequence was deduced from that of a cDNA
 CC clone (see AAA50441) isolated from a foetal spleen cDNA library.
 CC TANGO 228 proteins, nucleic acids and their modulators can be used
 CC to: modulate the proliferation, differentiation and/or function of
 CC cells that form the spleen, e.g. to treat (foetal) spleen-associated
 CC diseases such as splenic lymphoma and/or splenomegaly, and/or
 CC phagocytic disorders such as those inhibiting macrophage engulfment
 CC of bacteria and viruses in the bloodstream; to modulate mast cell
 CC function and thus to treat immunological disorders and diseases
 CC including allergic asthma and atopic dermatitis; to protect the body
 CC from antigenic invaders e.g. by modulating the activity of macrophage
 CC for treatment of anaphylactic shock or allergic dermatitis; to
 CC modulate type I immunological disorders, e.g. anaphylaxis or
 CC rhinitis, by modulating the interaction between antigens and mast
 CC cell receptors; and to treat tumour necrosis factor-related
 CC disorders (e.g. acute myocarditis, myocardial infarction, congestive
 CC heart failure); T cell disorders (e.g. dermatitis, fibrosis),
 CC differentiative and apoptotic disorders, and disorders related to
 CC angiogenesis (e.g. tumor formation, metastasis, cancer). TANGO 228
 CC polypeptides can be obtained using recombinant DNA methods and
 CC expressed using gene therapy protocols. They can also be used to

CC raise antibodies (useful as diagnostics) and to screen for
 XX modulator compounds.
 SQ Sequence 343 AA;
 Query Match 7.2%; Score 101.5; DB 21; Length 343;
 Best Local Similarity 26.4%; Pred. No. 0.24;
 Matches 55; Conservative 27; Mismatches 67; Indels 59; Gaps 13;
 QY 37 EVFPEGRWLITCCAPQPPPTYSL-----CGTKNIKAKVVKVTHEPASFNLT-- 88
 DB 44 KVMKGGQNVSMFCSHKNSQITVSLFRKTHLGTQDK-----GEPAIFNLITEA 95
 QY 89 LKSPDLLTYFCRASSTSGAH-----VDSARLQMHMELWSPVSELPANFTLQDRG 139
 DB 96 HESGP-----YKCAQVTSCKYSRDFSTIVDPV-----TSPVLNIMVIQTETDR- 141
 QY 140 AGPRVEMICQASSGSPPIITNSLIGKQGVHLQQRPC-----HRQPAFTSFL---PSQTSDW 192
 DB 142 ---HITLHCLSVNGSLPINTFF-----ENHVAISPAISKYDREPAEFNLTKNFGEBEE- 193
 QY 193 FWCQANN-----ANVQHSALTVPVPPGD 216
 DB 194 YRCEAKNRLPNYATYSH-FVTMPSTGGD 220
 RESULT 25
 ABB10224
 ID ABB10224 standard; Protein; 362 AA.
 XX
 AC ABB10224;
 XX
 DT 10-JAN-2002 (first entry)
 XX
 DE Human cDNA SEQ ID NO: 532.
 XX
 XX Human; gene therapy; neural disorder; immune system disorder;
 KW muscular disorder; reproductive disorder; gastrointestinal disorder;
 KW pulmonary disorder; cardiovascular disorder; renal disorder;
 XX proliferative disorder; inflammation.
 XX Homo sapiens.
 XX
 PN W0200154474-A2.
 XX
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US01349.
 XX
 PR 31-JAN-2000; 2000US-179065P.
 PR 04-FEB-2000; 2000US-180628P.
 PR 24-FEB-2000; 2000US-184664P.
 PR 02-MAR-2000; 2000US-186350P.
 PR 16-MAR-2000; 2000US-189874P.
 PR 17-MAR-2000; 2000US-190076P.
 PR 18-APR-2000; 2000US-198123P.
 PR 19-MAY-2000; 2000US-200515P.
 PR 07-JUN-2000; 2000US-209467P.
 PR 28-JUN-2000; 2000US-214886P.
 PR 30-JUN-2000; 2000US-215135P.
 PR 07-JUL-2000; 2000US-216647P.
 PR 07-JUL-2000; 2000US-216880P.
 PR 11-JUL-2000; 2000US-217487P.
 PR 11-JUL-2000; 2000US-217496P.
 PR 14-JUL-2000; 2000US-218290P.
 PR 26-JUL-2000; 2000US-220963P.
 PR 26-JUL-2000; 2000US-220964P.
 PR 14-AUG-2000; 2000US-224518P.
 PR 14-AUG-2000; 2000US-224519P.
 PR 14-AUG-2000; 2000US-225213P.
 PR 14-AUG-2000; 2000US-225214P.
 PR 14-AUG-2000; 2000US-225266P.
 PR 14-AUG-2000; 2000US-225267P.


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Qy 140 AGPRVEMICQASSGPPTNSLIGKQGVHLQORPC----HRQANFSFL---ESQTSW 192
Db 161 ---HITLCLSVNGSLPNTFF---ENHVAISPAISKYDREPAENLTCKNFEGBEE- 212
Qy 193 FWQQAANN-----ANVQHSALTVPVPGGD 216
Db 213 YRCEAKNRLPNATYSH-PVTMPSTGGD 239

RESULT 26
AAU18018
ID AAU18018 standard; Protein; 362 AA.
XX AC AAU18018;
XX DT 07-NOV-2001 (first entry)
XX DE Human immunoglobulin polypeptide SEQ ID No 163.
XX KW Immunoglobulin; signal transduction pathway protein; cancer;
KW antisense therapy; gene therapy; neurological disorder; renal disorder;
KW cardiovascular disorder; gastrointestinal disorder; pulmonary disorder;
KW reproductive disorder; immune system disorder; proliferative disorder;
KW muscular disorder.
XX OS Homo sapiens.
XX PN WO200155315-A2.
XX PD 02-AUG-2001.
XX PF 17-JAN-2001; 2001WO-US01326.
XX PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
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PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 23-AUG-2000; 2000US-0227182.
PR 30-AUG-2000; 2000US-0227009.
PR 01-SEP-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.

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PR 20-OCT-2000; 2000US-241785P.
 PR 20-OCT-2000; 2000US-241809P.
 PR 01-NOV-2000; 2000US-244617P.
 PR 17-NOV-2000; 2000US-249299P.
 PR 08-DEC-2000; 2000US-251856P.
 PR 08-DEC-2000; 2000US-251868P.
 PR 08-DEC-2000; 2000US-251869P.
 XX (ROSE/) ROSEN C A.
 PA (RUBE/) RUBEN S M.
 PA (BARA/) BARASH S C.
 XX
 PI Rosen CA, Ruben SM, Barash SC;
 XX
 DR WPI; 2002-684727/73.
 DR N-PSDB; ABV83783.
 XX
 PT Novel polypeptide useful for diagnosis, prognosis, prevention, and
 PT treatment of immune, hyperproliferative, renal, respiratory,
 PT cardiovascular, reproductive, endocrine, gastrointestinal and
 PT neurological disorders -
 XX
 PS Claim 11; SEQ ID NO 532; 369pp + Sequence Listing; English.
 CC
 CC The invention relates to novel genes (ABV83682-ABV84101) and proteins
 CC (ABP66710-ABP67129) useful for preventing, treating or ameliorating
 CC medical conditions e.g. by protein or gene therapy. The genes are
 CC isolated from a range of human tissues disclosed in the specification.
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
 CC and parasitic infections
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

```

SQ Sequence      362 AA;
Query Match          7.2%; Score 101.5; DB 23; Length 362;
Best Local Similarity 26.4%; Pred. No. 0.26;
Matches           59; Conservative 27; Mismatches 67; Indels 59; Gaps 13;

QY   37 EVFPGKRWLLITCCAPPPPIIYSL-----CGTKNIKVAKVVKCHEPASFNINVT-- 88
Db    63 KVMKGQGVSMFCSHKNKSIIQITYSLPRKTHLTGTQDK-----GEPAINLSITEA 114

QY   89 LKSSPDLITYFCRASSTSGAH-----VDSARLQMHWELMWSKPYSLEAFNFTLODRG 139
Db   115 HESGP----YCKRAQTSCSKYSRDRSFITVDPV-----TSPVLINMIQITETDR- 160

QY   140 AGRFVEMICASSGSPPITNSLICDQGVHQRPCC---HROPANFSFL---PSQTSDW 192
Db   161 ---HILHLCSLVNGSLPINITFF---ENHVAISPAISKYDREPAEFNLTKNPGESEE- 212

QY   193 FWCQAANN-----ANVQHSALTVPVPPGD 216
Db   213 YRCEAKNRLENFYATYSH-PVTMPSTGGD 239

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RESULT 28
AAM25703
ID AAM25703 standard; Protein; 366 AA.
XX
AAM25703;
XX
DT 16-OCT-2001 (first entry)

XX	Human protein sequence SEQ ID NO:1218.
DE	
XX	
XX	Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
KW	antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;
KW	antibacterial; endocrine; cardiac; central nervous system; virucide;
KW	anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;
KW	antilagregant; haemostatic; vulnery; antiulcer; osteopathic; eczema;
KW	dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic;
KW	neuroprotective; antidepressant; antiparkinsonian; infection;
KW	immunostimulant; gene therapy; antisense therapy; vaccine; inflammation;
KW	antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
KW	cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
KW	genetic disease; haematopoietic disorder; platelet disorder; asthma;
KW	thrombocytopaenia; osteoporosis; severe combined immunodeficiency;
KW	allergic rhinitis; diabetes; multiple sclerosis; depression;
KW	Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
KW	neurological disorder.
XX	
OS	homo sapiens.
XX	
XX	WO200153455-A2.
PN	
XX	
PD	26-JUL-2001.
XX	
XX	22-DEC-2000; 2000WO-US35017.
PF	
XX	
XX	23-DEC-1999; 99US-0471275.
PR	
PR	21-JAN-2000; 2000US-0488725.
PR	25-APR-2000; 2000US-0552317.
XX	
XX	(HYSE-) HYSEQ INC.
PA	
XX	
PI	Tang YT, Liu C, Drmanac RT;
XX	
DR	WPI; 2001-457603/49.
DR	N-PSDB; AAH99644.
XX	
PT	Isolated human polynucleotides encoding polypeptides, useful for the
PT	treatment and diagnosis of e.g. cancer, ulcers and HIV infection -
PS	
PS	Claim 20; Page 252; 1217pp; English.
XX	
CC	AAH99166 to AAH99904 encode the human proteins given in AM25225 to
CC	AM25963. The proteins can have activities based on the tissues and
CC	cells they are expressed in, such as: antiinflammatory; antirheumatic;
CC	antiarthritic; immunosuppressive; antibacterial; endocrine; cardiac;
CC	central nervous system; virucide; anti-HIV; fungicide; antimutagen;
CC	cardiovascular; antianaemic; antiaggregant; haemostatic; vulnery;
CC	antiulcer; osteopathic; dermatologic; antiallergic; antiasthmatic;
CC	antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
CC	antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC	encoding them can be used in gene therapy, antisense therapy and vaccine
CC	production. The proteins and polynucleotides are useful for screening for
CC	agonists or antagonists of a protein and for the treatment and diagnosis
CC	of disorders associated with the activity of a protein e.g. inflammation;
CC	rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC	neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC	infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC	anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
CC	osteoporosis, severe combined immunodeficiency, eczema, allergic
CC	rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
CC	Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC	neurological disorders.
CC	

```
SQ Sequence      366 AA;

Query Match          7.2%; Score 101.5; DB 22; Length 366;
Best Local Similarity 26.4%; Pred. No. 0.26;
Matches 55; Conservative 27; Mismatches 67; Indels 59; Gaps 13;

OY 37 EVFFKGRWLVLTCAQQPPPIIYSYL-----CGTRNIKVAKVKVKTPEASFNLAIVT--88
       :|::||::|||||
       ||::||
```


receptor, immunoglobulin superfamily receptor translocation associated protein 3 (IRTA3), an Fc receptor involved in the pathogenesis of lymphoma and melanoma. Efforts to identify genes involved in chromosomal aberrations affecting band 1q21 in multiple myeloma and B cell lymphoma led to the discovery of IRTA1 and IRTA2 (see AAB82312-15) as founding members of a novel subfamily of related receptors within the immunoreceptor family. 3 Additional proteins, IRTA3, IRTA4 and IRTA5 (see AAB82316-18), were subsequently identified, which are also members of this novel subfamily. The IRTA genes display a specific pattern of expression in mature B cells. IRTA3 is expressed in GC centrocytes and in perifollicular cells, which may include lymphoblasts and memory cells. This is analogous to IRTA2 expression. The invention provides IRTA nucleic acids and proteins, and antibodies directed to an epitope of an IRTA protein. Methods are claimed for: detecting a B cell malignancy comprising a 1q21 chromosomal rearrangement using a nucleic acid molecule that specifically hybridizes with a unique sequence of human IRTA1-5; and treating a subject having a B cell cancer by administering an anti-IRTA antibody or an antisense oligonucleotide that specifically hybridizes to IRTA mRNA so as to prevent overexpression of IRTA protein and hence to arrest cell growth or induce cell death of cancer cells expressing IRTA. The B cell cancer is selected from B cell lymphoma, mantle cell lymphoma, multiple myeloma, Burkitt's lymphoma, marginal zone lymphoma, diffuse large cell lymphoma and follicular lymphoma. The B cell lymphoma is selected from mucosa-associated-lymphoid tissue B cell lymphoma or non-Hodgkin's lymphoma.

XX Sequence 734 AA;

Query Match 7.1%; Score 100; DB 22; Length 734;
Best Local Similarity 24.9%; Pred. No. 0.99; Mismatches 52; Conservative 39; Indels 30; Gaps 11;
Matches 52; Conservative 39; Mismatches 52; Indels 30; Gaps 11;
QY 25 ITPVVSIAKYKLEVPFKGRWVLTTCAPQPPPIYSLCGTKNIKAKVVKVKT 78
Db 374 VTVRIPVSHPLTFRAPRAHTVVGDLLEHCSLRGSPILYFY-HEDVTIGNSAPSG 432
QY 79 EPASNLNLTSSPDLLTYFCRASSTGA-HVDSARLQMHLMKSPVSELRAFTLQD 137
Db 433 GGASFNLSLTAHSGN--YSCDADNGLGAQSHGVSLV---TVPVVS--RPVLTIRA 482
QY 138 RGA---GPRVEMICQASSGSPPIITNSLIGKD---GQVHLQRPCHRPANFSF-LPSQT 189
Db 483 PGAAVVGDLLEHCSLRGSPILYFYHEDVTIGNISAHS---GGASFNLSLTTTH 538
QY 190 SDWFWCQAAANNANVOHSALTVPVPGDQK 218
Db 539 SGNYSCEADNGLGAQSHKVVTLNVGTSTR 567

RESULT 34
ABG74786
ID ABG74786 standard; Protein; 31267 AA.
XX AC ABG74786;
XX XX
DT 05-JUN-2003 (first entry)
XX Human RGS11 protein.
DE RGS11; human; screening; cardiant; antiangiinal; gene therapy;
KW heart disorder; cardiac ischaemia; heart failure; angina.
XX Homo sapiens.
OS Homo sapiens.
XX WO2002103355-A1.
XX 27-DEC-2002.
XX 17-JUN-2002; 2002WO-JP06019.
XX 18-JUN-2001; 2001JP-0183038.

XX (TAKE) TAKEDA CHEM IND LTD.
XX Koyama N, Tanida S, Yamamoto K;
XX WPI; 2003-167557/16.
XX N-PSDB; ABX13540.
XX Screening compounds regulating RGS11 expression and activity for prevention and treatment of heart disease -
XX Claim 1; Page 59-261; 321pp; Japanese.
XX This invention describes a novel method for screening compounds for their ability to regulate the activity and expression of human RGS11 and its partial peptides and salts, by observing the expression or activity of RGS11 in the presence or absence of the test compound. The products of the invention have cardiant and antiangiinal activity and can be used for gene therapy. The methods and compositions are useful in the prevention, treatment and diagnosis of heart disorders such as cardiac ischaemia, heart failure and angina. This sequence represents the human RGS11 protein described in the disclosure of the invention.

XX Sequence 31267 AA;

Query Match 7.1%; Score 99.5; DB 24; Length 31267;
Best Local Similarity 22.4%; Pred. No. 2.3e+02; Mismatches 49; Conservative 31; Mismatches 72; Indels 67; Gaps 8;
Matches 49; Conservative 31; Mismatches 72; Indels 67; Gaps 8;
QY 24 EITPVVSIAKYKLEVPFKGRWVLTTCAPQPPPIYSLCGTKNIKAKVVKVKTPEASF 83
Db 6398 ELKPEVVKYSDVE-----LECEVTGTPPEVTLKNNREIRSSKKYTLTDRVSVF 6448
QY 84 NLNVLTSSPDLLTYFCRASSTGAHVDSARLQMHLMKSPVS-----ELRANF 133
Db 6449 NUHITKDPDSGTGEYQCVIVSNEGSCSTRVAL-----KEPPSFIKTIENTTTLKSSA 6503
QY 134 TLQDRGAGPRVEMICQASSGSPPIIT-----NSLIGKQGVHLQRPCHRPANFSFLPS 187
Db 6504 TFGSTVA-----GSPPISTLWKDQDILDEDDNVI-----SFDVS 6539
QY 188 QT-----SDWFWCQAAANNANVO--HSALTVPVPP 213
Db 6540 VATLQIRSVNDHSGRYTCQAKNSGVERCYAFLILVQEP 6578

RESULT 35
ABP69283
ID ABP69283 standard; Protein; 222 AA.
XX AC ABP69283;
XX XX
DT 20-JAN-2003 (first entry)
XX Human polypeptide SEQ ID NO 1330.
XX Human; genome mapping; gene therapy; food supplement; virus; fungus;
KW cell-proliferative disorder; neurodegenerative disease; bacterial;
KW Parkinson's disease; Alzheimer's disease; autoimmune disease;
KW multiple sclerosis; diabetes; genetic disorder; wound; burn; infection;
KW arthritis; cytostatic; immunomodulator; nootropic; neuroprotective;
KW antiparkinsonian; antidiabetic; immunosuppressive; dermatological;
KW haemostatic; vulnery; fungicide; antibacterial; virucide; protozoacide;
KW antiarthritic.
XX Homo sapiens.
OS Homo sapiens.
XX WO200270539-A2.
XX 12-SEP-2002.
XX 05-MAR-2002; 2002WO-US05095.

```

PR 05-MAR-2001; 2001US-0799451.
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F;
XX Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M;
XX Wehrman T, Wang J, Wang D, Drmanac RT;
XX
XX WPI: 2002-759812/82.
XX N-PSDB; ABZ11500.
XX
XX New polynucleotides comprising sequences assembled from expressed
XX sequence tags (ESTs), useful for treating cell-proliferative,
XX neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or
XX platelet or coagulation disorders -
XX
XX Claim 9; SEQ ID NO 1330; 1012pp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising a
XX nucleotide sequence selected from any of 948 sequences
XX (ABZ11119-ABZ12066) or their mature protein coding portion, active domain
XX coding protein or complementary sequences. The polynucleotides are useful
XX for identifying expressed genes or for physical mapping of human genome.
XX The encoded polypeptides (ABP68902-ABP69849) are useful as molecular
XX weight markers, as a food supplement, for generating antibodies, in
XX medical imaging, screening and diagnostic assays and for treating
XX cell-proliferative disorders (cancer), neurodegenerative diseases
XX (Parkinson's or Alzheimer's disease), autoimmune diseases (multiple
XX sclerosis, diabetes, lupus) genetic disorders, myeloid or lymphoid
XX disorders, platelet or coagulation disorders, wound, burns, incision,
XX ulcers, liver or lung fibrosis, infections (bacterial, viral, fungal,
XX parasitic), arthritis, etc.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 222 AA;
XX
XX Query Match 7.0%; Score 98.5; DB 23; Length 222;
XX Best Local Similarity 23.3%; Pred. No. 0.25;
XX Matches 50; Conservative 28; Mismatches 86; Indels 45; Gaps 8;
XX
XX QY 30 SIAYKLVFPPKGRWLIITCCAPQ-----PPPTYSLCGK----- 66
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 15 TWPYSVISDSPRS-WIQVOIPASHPVLTLSPEKALNFGTKVTLHCETQEDSLRTLYR 73
XX
XX QY 67 --NIKAKVKVTHEPASNVLNLTLSKSPDLITYFCRASSTGADVDSARLQHWELWSK 124
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 74 HEGVPLRHKSVCRCGASISFSLTTENSGN--YYCTADNGLGAKPSKAVSLSVTPVSH 130
XX
XX QY 125 PVSELRANFTLQDRCAGPRVEMICQASSGSPPTNSLICKDQVHLQRPCHQPEAN--- 181
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 131 PVNLSSPEDLLFEGA--KVTLLHCEAQRGLSILPY-----QFHEDAALEERSANSAG 181
XX
XX QY 182 ---FSF-LPSQSDMFWCOANNANYQHS 206
XX Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
XX 182 GVAISFSLTAHSGNYCYCTADNGFGPQRS 210
XX
XX RESULT 36
XX ID AAR13251
XX AC AAR13251 standard; Protein; 738 AA.
XX AC AAR13251;
XX
XX DT 25-MAR-2003 (updated)
XX DT 10-OCT-1991 (first entry)
XX
XX DE PECAM-1.
XX
XX Platelet and endothelial cell adhesion molecule; antibodies;
XX muten; leukemia; cancer; variant.
XX

```

```

OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..27
XX /label= sig_peptide
XX Protein 28..738
XX /label= mat_protein
XX Domain 602..620
XX /label= transmembrane_domain
XX
XX Modified-site 52
XX /label= glycosylation_site
XX Modified-site 84
XX /label= glycosylation_site
XX Modified-site 151
XX /label= glycosylation_site
XX Modified-site 301
XX /label= glycosylation_site
XX Modified-site 320
XX /label= glycosylation_site
XX Modified-site 344
XX /label= glycosylation_site
XX Modified-site 356
XX /label= glycosylation_site
XX Modified-site 453
XX /label= glycosylation_site
XX Modified-site 551
XX /label= glycosylation_site
XX Modified-site 713
XX /label= glycosylation_site
XX
XX WO9110683-A.
XX
XX 25-JUL-1991.
XX
XX 27-DEC-1990; 90WO-US07418.
XX
XX 19-JAN-1990; 90US-0466140.
XX
XX (BLOO-) BLOOD CENT SE WISCO.
XX (NEWM/) NEWMAN P J.
XX
XX Newman PJ;
XX
XX WPI: 1991-237987/32.
XX P-PSDB; AAR13251.
XX
XX Platelet and endothelial cell adhesion molecule - the molecule or
XX its antibodies, are useful for preventing metastatic disease
XX
XX Disclosure; Fig 1; 42pp; English.
XX
XX Cysteine residues, spaced approx. 50 amino acids apart throughout
XX the entire external domain of PECAM-1, are thought to participate in
XX disulfide-bond formation within individual immunoglobulin homology
XX units.
XX
XX PECAM-1 and variants can be used in modulating angiogenic processes
XX which depend on neutrophil chemotaxis and/or formation of junctions
XX between endothelial cells, e.g. in tumour development. PECAM-1,
XX variants and antibodies to them can be used in the prevention of
XX metastatic disease. The antibodies can also be used to produce
XX anti-idiotypic antibodies which can be used to sequester anti-PECAM
XX antibodies in an individual, thereby to treat or prevent pathological
XX conditions which may be associated with an immune response whereby
XX PECAM-1 is recognised as foreign by the immune system of the
XX individual.
XX
XX The variant pref. comprises the N-terminal sequence QENSF and is
XX 574 amino acids long.
XX (Updated on 25-MAR-2003 to correct PA field.)
XX
XX Sequence 738 AA;
XX
XX Query Match 7.0%; Score 98; DB 12; Length 738;
XX Best Local Similarity 21.2%; Pred. No. 1.6;
XX

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Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;
QY 19 KAREEITPVVSIAYKVLVFPK-----GRWVLTCCAPQPPPIYSLGCTK 66
Db 305 KVESSRIKSVSSIVVNITELFSKPELESFTHLDQGERLNLSCSIPGAPP-----A 355
QY 67 NIKVAKKVVKTHPEASFNLTLSKSPDLLTYFCRASSTSGAHVDSARLQMHWELSKPV 126
Db 356 NFTIQEDTIVSQDFF---TKIASKSDSGTYICTAGIDKVVKKSNVTQIVVCEMLSQPR 412
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQORPCHROFANFSFLP 186
Db 413 ISYDAQFEVI---KGQTIIEVRCEISIGTLPISVQLL-KTSKVLNSTKNSNDPAVFDNP 468
QY 187 SQTSDWFWCQAANNAN-----VQHSALT--VVPFGDQKME-----D 221
Db 469 TEDVE-YQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVEGSDIVLQCAVNE 527
QY 222 WQGPLESFIL---ALPLYRST-----RRLSEEEFGGF 250
Db 528 GSGPITYKYREKEGKPFYQMTSNATQAFWTKQKASKEGEY 570

RESULT 38
ID AAB07652
XX AAB07652 standard; Protein; 738 AA.
XX AC AAB07652;
XX DT 07-NOV-2000 (first entry)
XX DE A platelet-endothelial cell adhesion molecule-1.
XX KW Human; platelet-endothelial cell adhesion molecule-1; PECAM-1;
    angiogenesis; inflammation; arterial occlusion; tumour development;
    Homo sapiens.
Key Location/Qualifiers
FT Peptide 1..27
FT /label= Sig_peptide
FT Protein 28..738
FT /label= Mat_protein
FT Domain 28..601
FT /label= Extracellular
FT Domain 602..620
FT /label= Transmembrane
FT Domain 621..738
FT /label= Cytoplasmic
FT Region 28..144
FT /label= Ig-like
FT Region 145..248
FT /label= Ig-like
FT Region 249..339
FT /label= Ig-like
FT Region 340..423
FT /label= Ig-like
FT Region 424..515
FT /label= Ig-like
FT Region 516..601
FT /label= Ig-like
XX WQ9710839-A1.
XX 27-MAR-1997.
XX 18-SEP-1996; 96WO-US14940.

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PR 19-SEP-1995; 95US-0003996.
PR 19-SEP-1995; 95US-0003941.
PR 19-SEP-1995; 95US-0003951.
PR 19-SEP-1995; 95US-0003953.
PR 19-SEP-1995; 95US-0003968.
PR 19-SEP-1995; 95US-0003985.
XX (TEXA-) TEXAS BIOTECHNOLOGY CORP.
XX Beck P, Bjercke RJ, Kint PN, Ren K, Revelle BM;
XX Sherwood S;
XX WPI; 1997-202615/18.
XX New synthetic peptide(s) based on PECAM-1 sequences - used for
XX inhibiting the binding of PECAM-1 to itself, for treating e.g.
XX asthma, autoimmune diseases, shock, strokes or cancer
XX Claim 1; Page 31-34; 87pp; English.
XX Human PECAM-1 (AAW14802), or platelet/endothelial cell adhesion
XX molecule-1 or CD31, is a glycoprotein that is constitutively
XX expressed on the surface of endothelial cells, platelets and most
XX leukocytes. It recognises and binds to other PECAM-1 molecules
XX present on the surface of adjacent cells. Novel, synthetic linear
XX and cyclic peptides (AAW28354-W28457) of 4-13 amino acids are based
XX on the C2-type Ig domain of PECAM-1. They inhibit the binding of
XX PECAM-1 to itself and can be used for treating allergy, adult
XX respiratory distress syndrome, Crohn's disease, septic shock,
XX traumatic shock, multi-organ failure, autoimmune disease, asthma,
XX inflammatory bowel disease, psoriasis, rheumatoid arthritis,
XX reperfusion injury, stroke, cancer, organ transplants, multiple
XX sclerosis, atherosclerosis and leukaemia.
XX Sequence 738 AA;
XX Query Match 7.0%; Score 98; DB 18; Length 738;
XX Best Local Similarity 21.2%; Pred. No. 1.6;
XX Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;
QY 19 KAREEITPVVSIAYKVLVFPK-----GRWVLTCCAPQPPPIYSLGCTK 66
Db 305 KVESSRIKSVSSIVVNITELFSKPELESFTHLDQGERLNLSCSIPGAPP-----A 355
QY 67 NIKVAKKVVKTHPEASFNLTLSKSPDLLTYFCRASSTSGAHVDSARLQMHWELSKPV 126
Db 356 NFTIQEDTIVSQDFF---TKIASKSDSGTYICTAGIDKVVKKSNVTQIVVCEMLSQPR 412
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPIITNSLIGKDGQVHLQORPCHROFANFSFLP 186
Db 413 ISYDAQFEVI---KGQTIIEVRCEISIGTLPISVQLL-KTSKVLNSTKNSNDPAVFDNP 468
QY 187 SQTSDWFWCQAANNAN-----VQHSALT--VVPFGDQKME-----D 221
Db 469 TEDVE-YQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVEGSDIVLQCAVNE 527
QY 222 WQGPLESFIL---ALPLYRST-----RRLSEEEFGGF 250
Db 528 GSGPITYKYREKEGKPFYQMTSNATQAFWTKQKASKEGEY 570

RESULT 38
ID AAB07652
XX AAB07652 standard; Protein; 738 AA.
XX AC AAB07652;
XX DT 07-NOV-2000 (first entry)
XX DE A platelet-endothelial cell adhesion molecule-1.
XX KW Human; platelet-endothelial cell adhesion molecule-1; PECAM-1;
    angiogenesis; inflammation; arterial occlusion; tumour development;
    Homo sapiens.

```

KW leukocyte transmigration; arthritis; bee sting; spider bite; sepsis;
 KW anaphylactic shock; atherosclerosis; vascular trauma.

XX Homo sapiens.

XX US6087331-A.

XX 11-JUL-2000.

XX 07-JUN-1995; 95US-0478208.

XX 19-JAN-1990; 90US-0466140.

XX 17-NOV-1992; 92US-0977567.

XX 16-NOV-1994; 94US-0341300.

XX (BLOO-) BLOOD CENT SOUTHEASTERN WISCONSIN.

XX Kirshbaum N, Gumina RJ, Newman PJ;

XX WPI; 2000-498203/44.

XX N-PSDB; AAA59036.

PT Therapeutic methods useful for modulating angiogenic processes,
 PT relieving inflammation, or inhibiting arterial occlusions by
 PT administering a soluble form of the platelet-endothelial cell adhesion
 PT molecule-1 -

XX Claim 1; Column 37-42; 22pp; English.

XX The present sequence represents a human platelet-endothelial cell
 CC adhesion molecule-1 (PECAM-1) polypeptide. A soluble form of
 CC PECAM-1 is used for modulating angiogenic processes, relieving
 CC inflammation, and inhibiting arterial occlusions. The method
 CC is useful for modulating angiogenic processes that are associated
 CC with tumour development, relieving inflammation due to leukocyte
 CC transmigration (e.g. arthritis, bee sting, spider bite, sepsis or
 CC anaphylactic shock), or inhibiting arterial occlusions that are
 CC associated with atherosclerosis or vascular trauma. PECAM-1 isoforms
 CC are useful for making antibodies, e.g. monoclonal antibodies, for
 CC various diagnostic and therapeutic uses.

SQ Sequence 738 AA;

Query Match 7.0%; Score 98; DB 21; Length 738;
 Best Local Similarity 21.2%; Pred. No. 1.6;
 Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;

QY 19 KAREEITPVVSTAYKLVFVK-----GRWLITCCAPQPPPPITYSLCGTK 66
 Db 305 KVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSICIFGAPP-----A 355
 QY 67 NIKVAKVVKVTHEPASFNINVLTKSSPDLLTYFCRASSTSGAHVDSARLOMHWELMSKPV 126
 Db 356 NFIQKEDTIVSQTFD---TKIASKSDSGTYICTAGIDKVKVKSNTVQIVVCEMLSQPR 412
 QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPITNSLIGKDGQVHLQRPCHROPANFSFLP 186
 Db 413 ISYDAQFEVI---KGTIEVRCEISGTLPISYQLL-KTSKVLNKTNSNDPAVFKDNP 468
 QY 187 SQTDFWFWQAOANNAN-----VQHSALT--VVPFGDQKME---D 221
 Db 469 TEDVE-YQCVDNCHSHAKMLSEVLKVKVIAPVDEQVQISLSSKVVESGEDIVLQCAVNE 527
 QY 222 WQGPLESPLI---ALPLYRST-----RRLSEEFGGF 250
 Db 528 GSGPITYKPYREKGGPFYQMTSNATQAFWTKQKASKEQGEY 570

RESULT 39

AAB65866

ID AAB65866 standard; Protein; 738 AA.

XX AAB65866;

AC AAB65866;

XX DT

XX DT

XX DE

XX DE

XX KW

XX KW

XX KW

XX KW

XX KW

XX OS

XX OS

XX EN

XX EN

XX PD

XX PD

XX PD

XX PF

XX PF

XX PR

XX PR

XX PA

XX PA

XX PI

XX PI

XX DR

XX DR

XX XX

XX PT

XX PT

XX PT

XX PT

XX PS

XX PS

XX CC

XX CC

XX CC

XX CC

XX CC

XX CC

XX CC

XX XX

SQ Sequence 738 AA;

Query Match 7.0%; Score 98; DB 22; Length 738;
 Best Local Similarity 21.2%; Pred. No. 1.6;
 Matches 60; Conservative 39; Mismatches 116; Indels 68; Gaps 11;

QY 19 KAREEITPVVSTAYKLVFVK-----GRWLITCCAPQPPPPITYSLCGTK 66
 Db 305 KVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSICIFGAPP-----A 355
 QY 67 NIKVAKVVKVTHEPASFNINVLTKSSPDLLTYFCRASSTSGAHVDSARLOMHWELMSKPV 126
 Db 356 NFIQKEDTIVSQTFD---TKIASKSDSGTYICTAGIDKVKVKSNTVQIVVCEMLSQPR 412
 QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPITNSLIGKDGQVHLQRPCHROPANFSFLP 186
 Db 413 ISYDAQFEVI---KGTIEVRCEISGTLPISYQLL-KTSKVLNKTNSNDPAVFKDNP 468
 QY 187 SQTDFWFWQAOANNAN-----VQHSALT--VVPFGDQKME---D 221
 Db 469 TEDVE-YQCVDNCHSHAKMLSEVLKVKVIAPVDEQVQISLSSKVVESGEDIVLQCAVNE 527
 QY 222 WQGPLESPLI---ALPLYRST-----RRLSEEFGGF 250
 Db 528 GSGPITYKPYREKGGPFYQMTSNATQAFWTKQKASKEQGEY 570

RESULT 40

AAR94893

ID AAR94893 standard; peptide; 474 AA.

XX AAR94893;

XX AAR94893;

DT 17-OCT-1996 (first entry)

28-MAR-2001 (first entry)

Human PECAM-1 protein SEQ ID NO: 73.

Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;

INTERCEPT 258; coronary disorder; olfactory disorder;

neurological disorder; pulmonary disorder; immunological disorder;

developmental disorder; kidney disorder.

Homo sapiens.

WO2000078808-A1.

28-DEC-2000.

19-JUN-2000; 2000WO-US16863.

18-JUN-1999; 99US-0336536.

(MILL-) MILLENNIUM PHARM INC.

Leiby KR, McKay C, Bossone S;

WPI; 2001-050109/06.

New nucleic acids for treating diseases and disorders, e.g.

PT atherosclerosis, infection, autoimmune diseases, obesity, ear

PT disorders, brain disorders, tumors, diabetes, arthritis, multiple

PT sclerosis and asthma -

PS Disclosure; Page 255-258; 332pp; English.

XX The present invention provides the protein and coding sequences of the

XX human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,

XX TANGO 281 and INTERCEPT 258. These are useful in the treatment of

XX coronary, pulmonary, olfactory, immunological, neurological,

XX developmental and kidney disorders.

```

XX DE CD31 fragment (domains D1-D5).
XX KW CD31; domain; antibody; detection; carcinoma; inflammation;
XX KW inhibition; treatment.
XX OS Homo sapiens.
XX PN GB2294321-A.
XX XX
XX PD 24-APR-1996.
XX PF 19-OCT-1994; 94GB-0021118.
XX PR 19-OCT-1994; 94GB-0021118.
XX PA (IMCR ) IMPERIAL CANCER RES FUND.
XX PA (YAMA-) YAMANOUCHI RES INST.
XX PI Bird I, Buckley C, Fawcett J, Simmons D, Spragg J;
XX WPI; 1996-202498/21.
XX PT Methods of screening for inhibitors of CD31 interactions - and
XX PT mapping their sites of reaction with the CD31 protein
XX PS Disclosure; Figure 16; 31pp; English.
XX XX
XX CC Screening of inhibitors of CD31 is achieved by incubating labelled
XX CC CD31 component with potential inhibitor, adding this mixture to CD31
XX CC component immobilised on a support, washing and detecting label.
XX CC Alternatively, potential inhibitor can be incubated with CD31
XX CC component immobilised on a support and labelled CD31 component can
XX CC be added followed by washing and detecting label. Failure to
XX CC detect label suggests that the compound being screened is not an
XX CC inhibitor of CD31. The method is used to identify antibodies that
XX CC can be used in the treatment of carcinomas and inflammation.
XX SQ
XX Sequence 474 AA;
XX
XX Query Match 6.9%; Score 97.5; DB 17; Length 474;
XX Best Local Similarity 22.8%; Pred. No. 0.94;
XX Matches 44; Conservative 27; Mismatches 93; Indels 29; Gaps 6;
XX
QY 19 KAREEETPVVSIAYKVLVEPK-----GRWLITCAPPPPPITVSLCGTX 66
Db 275 KVSSRSKVVSSIVNVNITELFSKEELSSFTHLDDQGERLNLSCIPGAPP-----A 325
QY 67 NIKVAKVVKVTHPEFASFNANVTLKSSPDLLTYFCRASSTSGAHVDSARLQHWELWSKP 126
Db 326 NFTIQKEDTIVSQTQDF---TKIASKSDSGTYICTAGIDKVKVKSNTVQIVVCEMUSQPR 382
QY 127 SELRANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKQGVHLQRPCHRPQANFSFLP 186
Db 383 ISYDAQFEVI---KGQTIIEVRCSISGTLPSIQYQLL-KTSKVLNSTKNENDPAVFKDNP 438
QY 187 SQTSDMFQCOAAN 199
Db 439 TEDVE-YQCVDAN 450
XX
XX RESULT 41
XX ABG10463
XX ID ABG10463 standard; Protein; 506' AA.
XX AC
XX ABG10463;
XX XX
XX 13-FEB-2002 (first entry)
XX DE Novel human diagnostic protein #10454.
XX XX
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX KW food supplement; medical imaging; diagnostic; genetic disorder.

```

```

XX OS Homo sapiens.
XX PN WO200175067-A2.
XX XX
XX PD 11-OCT-2001.
XX PF 30-MAR-2001; 2001WO-US08631.
XX PR 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX PA (HYSE-) HYSEQ INC.
XX PI Drmanac RT, Liu C, Tang YT;
XX DR WPI; 2001-639362/73.
XX DR N-PSDB; AAS74650.
XX XX
XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity
XX PS Claim 20; SEQ ID No 40822; 103pp; English.
XX XX
XX CC The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC (II). (II) is useful for generating antibodies against it, detecting or
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. ABG0010-ABG0377 represent novel human
XX CC diagnostic amino acid sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ
XX Sequence 506 AA;
XX
XX Query Match 6.9%; Score 97.5; DB 22; Length 506;
XX Best Local Similarity 20.7%; Pred. No. 1;
XX Matches 62; Conservative 41; Mismatches 100; Indels 97; Gaps 14;
XX
QY 1 MG-LPGFCLAVL---AASFSAKREEEITPVVSIAYKVLVEPPKGRWLVITCCAQPP-- 54
Db 1 MGFLPKLLILASFPPAGQASGWVSPQDVQGV-----KGSCLLIPCFSPAD 48
QY 55 ---PPFIT---YSLCGTKNI-----KVAKVVKVTHPE---ASFNLVTLKS----- 91
Db 49 VEVPDGTITAIWYDYGQRRVFMGNPEHRVNCNLLKDLQPEDSGSYNFRFEISEVNRWSD 108
QY 92 -SPDLTYFCRASSTSGAHVDSARLQHWELWSKPV-----SELRANFTLQDR 138
Db 109 VKGTLVTVTARSLSPPGRHLETHLWAMSWQDCHRIIRCQLSVANHRAQSEIHLQVKYAPR 168
QY 139 GA-----GPRVEMI CQASSGSPPTITNSLIGKQGVHLQRP--CHRPQANFS 183
Db 169 GVKILLSPSGRNILPGLVTLTCQVNSSYPAYSSIKWLKDG-VRLTKTGVLHLPQAWS 227
QY 184 FLPSQTSDFWQCOAANNANVQHSALTVPVPGDQKMDQGPLESILALPLYRSTRRLS 243
Db 228 ----DAGVITCOAENGV-----GSLVSPSPISLHIFMAEVQVS 260

```

RESULT 42	PI	Gallatin WM, Vazeux R;
AAR39741	XX	
ID AAR39741 standard; Protein; 547 AA.	DR	WPI; 1993-258372/32.
XX AC	DR	N-PSDB; AAQ46991.
XX AC	XX	DNA encoding new human inter-cellular adhesion molecule
DT DT	PT	polypeptide (ICAM-R) - useful for treating immune and
DT DT	PT	inflammatory diseases, tumours and viral infection e.g. HIV
XX XX	PS	Claim 12; Figure 1(A-G); 126pp; English.
DE DE	XX	ICAM-R polypeptides can be used in the modulation of immune cell
XX XX	CC	activation/proliferation as competitive inhibitors or stimulatory
KW KW	CC	agents of inter- and intracellular ligand/receptor binding
KW KW	CC	reactions involving ICAM-R. ICAM-R and related products can be
XX XX	CC	used for the treatment of conditions resulting from a response
XX XX	CC	of the non-specific immune response in a mammal, e.g. adult
XX XX	CC	respiratory distress syndrome, acute glomerulonephritis, reactive
XX XX	CC	arthritis, stroke etc, and conditions resulting from a response
XX XX	CC	of the specific immune system in a mammal e.g. psoriasis,
XX XX	CC	organ/transplant rejection and autoimmune diseases. The ICAM-R
XX XX	CC	products can also be used for monitoring and treating asthma,
XX XX	CC	tumour growth and/or metastasis and viral infection.
XX XX	CC	(Updated on 25-MAR-2003 to correct PN field.)
SQ	XX	Sequence 547 AA;
		Query Match 6.9%; Score 97.5; DB 14; Length 547;
		Best Local Similarity 21.0%; Pred. No. 1.1;
		Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;
QY	38	VFPKGRWLTTC-----APQPPPI-----TYSLCGT---KNIKVAKKV 75
Db	9	LMPRACWTLVCCLLTPGVQGFELRLRVPVLSAGSLEFVNCSTDCPSSEKIALETS 68
QY	76	KTHEP-----ASFNLNVTLSKSPDLLTYFCRASSTSG-AHVDSARLQHWEL-----W 122
Db	69	LSKELVASGMGWAANLNSVNTGNSILCSVYCNQSGITGNSITVYGLPERVELAPLPW 128
QY	123	SKPVSELNANFTLQDRGAGPRVEMICQASSGSPPTITNSLIGKDGQVHLOQRCHROPANF 182
Db	129	-QPVGQ---NFTLR-----CQVEGGSFRTSLTVLLRWEELSRQPAVEEPAEV 173
QY	183	SFLPQSTSD-----WFWCQAANNANVQHSALTVPFGGOKMEDWQGPLESPIALPLY 236
Db	174	TATVLASRDDHGAPFSCRTELDMQPQGLGL-FVNT-SAPRQLETFVLVTPPRLVAPRF 230
		RESULT 43
		AAW76118
ID	AAW76118	standard; Protein; 547 AA.
XX AC	AAW76118;	
DT DT	20-NOV-1998	(first entry)
XX XX	XX	Human ICAM-R protein.
DE DE	XX	
XX XX	XX	Inter-cellular adhesion molecule; ICAM-R; human; modulator; 14.3.3 family;
KW KW	XX	HS1-beta; tubulin; inhibitor; stimulator; effector; immune response;
KW KW	XX	inflammation; disorder; T cell activation; macrophage; Crohn's disease;
KW KW	XX	adult respiratory distress syndrome; stroke; multiple sclerosis; asthma;
KW KW	XX	rheumatoid arthritis; tumour growth; human immune deficiency virus;
XX XX	XX	infection; diabetes; graft vs. host disease; passive immunisation.
OS	Homo sapiens.	
XX XX	XX	Location/Qualifiers
EH	Key	1..29
FT	Peptide	/label= signal
FT	Protein	30..547
FT		/label= ICAM-R
FT		/note= "intercellular adhesion molecule"

PT DNA encoding mutant ICAM-R polypeptide(s) - useful for diagnosis
 PT and treatment of cell adhesion based disease conditions e.g.
 PT inflammation or asthma
 XX
 XX Claim 1; Fig 1A-G; 11pp; English.
 CC
 CC The present sequence represents human ICAM-R (intercellular adhesion
 CC molecule-R). ICAMs are polypeptides that are expressed on blood vessel
 CC endothelial cell surfaces and are involved in the adhesion events in
 CC various conditions. ICAM-R variants (see AA#W1364-69) can be used to
 CC treat or monitor inflammatory conditions involving specific or
 CC nonspecific immune responses, asthma, tumour growth and/or metastasis and
 CC viral infections. the ICAM variants are produced recombinantly, from
 CC expression libraries of mutated sequences, and the ones that are claimed
 CC are the ones that have been found to be especially involved in adhesion
 CC events. They can also be used to raise antibodies, also for use as
 CC therapeutic or diagnostic agents.
 CC (Updated on 25-MAR-2003 to correct PR field.)
 XX Sequence 547 AA;
 SQ

```

Query Match      6.9%; Score 97.5; DB 19; Length 547;
Best Local Similarity 21.0%; Pred.No 1.1;
Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY   38 VFPGKRWLITCC-----APQPPI-----TYSLCGT-----KNIKVAKVV 75
    Db   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
       9 LWPRACWTLVCLLPVGOGQGFLLVEFQNPLVSAGSLFNVCSTDCPSSEKIALETS 68
QY   76 KTHPE-----ASFNLNVLTKSPDLITYFCRASSTSG-AHYDSARLOMHWEI---W 122
    Db   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
       69 LSKELVASGGMGAFAFLSNVTGNLSRLCSVYCNGSQITGSNNITVYGLPERVELAIPPP 128
QY   123 SKPVSELRAFTLLQDRGAGRPVEMIQAASSGPSPIINSLIGKGQVHLQRPCHROPANF 182
    Db   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
       129 -QPVGG--NFTLR-----CQEGGSPRTSLTVILLRWEELSQQPAVEEPAEV 173
QY   183 SFLPSTSD-----WFWCQAANNANVOHSALTVPVPGDQXMDQWGQLESFILALPLY 236
    Db   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
       174 TATVLASRDHGHAFSCRIETLMDQPQGLGH-FYNISAPROLRFVLPVTPRIVAPRRF 230

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RESULT 45	
AAW59005	
ID	AAW59005 standard; Protein; 547 AA.
XX	
XX	AAW59005;
XX	
XX	04-AUG-1998 (first entry)
DT	
XX	
XX	Human ICAM-R protein.
DE	
XX	
XX	ICAM-4; ICAM-R; intercellular adhesion molecule; rat; neuron-specific;
KW	promoter; hippocampus; antibody; cell-cell interaction; ss.
KW	
XX	
XX	Homo sapiens.
OS	
XX	
XX	US5753502-A.
PN	
XX	
XX	19-MAY-1998.
XX	
XX	06-JUN-1996; 96US-0656984.
PF	
XX	
XX	06-JUN-1996; 96US-0656984.
PR	
PR	05-AUG-1993; 93US-0102852.
PR	18-MAY-1994; 94US-0245295.
PR	07-JUN-1995; 95US-0481130.
XX	
XX	(ICOS-) ICOS CORP.
PA	
XX	
XX	Gallatin WM, Kilgannon PD;
FPI	
XX	WPI; 1998-311408/27.
XX	
DR	

DR	N-PSDB; AAV11657.
XX	
XX	ICAM-4 gene promoter - for directing gene expression in neuronal
PT	cells
XX	
PS	Disclosure; Col 41-46; 47pp; English.
XX	
XX	This sequence represents a human neuron-specific intercellular
CC	adhesion molecule, ICAM-R, which is used in a method to isolate a
CC	human ICAM-4 gene promoter. This promoter specifically promotes gene
CC	transcription in neuronal cells especially hippocampal cells. Recombinant
CC	proteins can also be used to raise antibodies against ICAM-4. The ICAM-4
CC	DNA sequences and its recombinant production are new tools in the
CC	elucidation of cell-cell interactions.
XX	
XX	Sequence 547 AA:

```

Query Match      6.9%; Score 97.5; DB 19; Length 547;
Best Local Similarity 21.0%; Pred. No. 1.1;
Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY      38 VFKGRWLVITCC-----APQPPPI-----TYSLCG-----KNIKVAKVV 75
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      9 LWRACWLLVCLLTPGVGQFELRVEQNVLGAGSLFVNCSTDCPSSEKIALETS 68
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      76 KTHEP-----ASFNLNVLTKSSPDLLTYFCRASSTG-AHYDSARLOQHWEL-----W 122
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      69 LSKELVASGMGAFAFNLNVTGNSRILCSVYNGSQITGSSNITVYGLPERVELAPLPW 128
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      123 SKVSELRANFTLQDRGAGRPVEMIQAASGSPPIITNSLLICKGQVHLQORPCHQPANF 182
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      129 -QVQG--NFTLR-----COVEGGSPTSLTVLLRWEELSQQAVEPAPAEV 173
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY      183 SFLPSQTS-----WFWCAANNANVQHSALTVPFGGQDQKMDQWQFLSPILALFLY 236
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      174 TATVLSRDDHGAPFSCRYELDMCPQGLG-FYNTSAPRLQRTFVLVPTPRVAVAPF 230
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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RESULT 46		
AAW44838		
ID	AAW44838	standard; Protein; 547 AA.
XX	AC	
XX	AAW44838;	
XX	AC	
XX	XX	
DT	21-JUL-1998	(first entry)
XX	XX	
XX	Human ICAM-4 protein.	
DE	XX	
XX	XX	
KW	Rat; intracellular adhesion molecule; ICAM; probe; hybridisation; human;	
KW	reverse transcription; RT-PCR; RACE; rapid amplification of cDNA ends;	
KW	immunogen; antibody.	
XX	XX	
XX	Homo sapiens.	
OS	XX	
XX	US5700658-A.	
XX	XX	
PD	23-DEC-1997.	
XX	XX	
PF	18-MAY-1994; 94US-0245295.	
XX	XX	
PR	18-MAY-1994; 94US-0245295.	
PR	27-JAN-1992; 92US-0827689.	
PR	26-MAY-1992; 92US-0889724.	
PR	05-JUN-1992; 92US-0894061.	
PR	22-JAN-1993; 93US-0009266.	
PR	05-AUG-1993; 93US-0102852.	
XX	XX	
PA	(ICOS-) ICOS CORP.	
XX	XX	
PI	Gallatin WM, Kilgannon PD;	
XX	XX	
DR	WPI; 1998-062375/06.	
DR	N-PSDB; AAV19328.	

FT Modified-site /note= "mature protein"

FT Region /note= "potential N-glycosylation site"

FT Modified-site 52..100

FT Modified-site 84 /note= "putative immunoglobulin-like loop region"

FT Modified-site 87 /note= "potential N-glycosylation site"

FT Modified-site 101 /note= "potential N-glycosylation site"

FT Modified-site 110 /note= "potential N-glycosylation site"

FT Modified-site 134 /note= "potential N-glycosylation site"

FT Region 139..190

FT Modified-site 206 /note= "putative immunoglobulin-like loop region"

FT Modified-site 264 /note= "potential N-glycosylation site"

FT Region 241..294

FT Modified-site 295 /note= "putative immunoglobulin-like loop region"

FT Modified-site 307 /note= "potential N-glycosylation site"

FT Modified-site 320 /note= "potential N-glycosylation site"

FT Region 336..375

FT Modified-site 363 /note= "putative immunoglobulin-like loop region"

FT Modified-site 389 /note= "potential N-glycosylation site"

FT Region 423..462

FT Modified-site 453 /note= "putative immunoglobulin-like loop region"

FT Modified-site 457 /note= "potential N-glycosylation site"

FT Region 486..510

FT Region 511..547

FT /note= "potential N-glycosylation site"

FT /note= "potential N-glycosylation site"

FT /note= "putative hydrophobic transmembrane region"

FT /note= "putative carboxy terminal cytoplasmic region"

XX US5837822-A.

XX 17-NOV-1998.

XX 07-JUN-1995; 95US-0487113.

XX 07-JUN-1995; 95US-0487113.

XX 27-JAN-1992; 92US-0827689.

XX 26-MAY-1992; 92US-0889724.

XX 05-JUN-1992; 92US-0894061.

XX 22-JAN-1993; 93US-0009266.

XX 26-JAN-1993; 93WO-US00787.

XX 05-AUG-1993; 93US-0102852.

XX (ICOS-) ICOS CORP.

XX Gallatin WM, Vazeux R;

XX WPI; 1999-023535/02.

XX N-PSDB; AAV69125.

XX Humanised antibodies specific for intercellular adhesion molecule polypeptide - useful for therapeutic or diagnostic purposes

XX Example 5; Fig 1A-G; 116pp; English.

XX This represents the amino acid sequence of human intercellular adhesion

CC molecule polypeptide (ICAM-R). The invention relates to humanised ICR 1.1 and ICR 8.1 antibodies targeted to the ICAM-R polypeptide. Antibodies specific for ICAM-R's are potentially useful as therapeutic compounds, for treating e.g. immune-mediated inflammatory conditions (e.g. graft-versus-host disease), asthma, tumours or viral infections. Monoclonal antibodies specific for ICAM-R, or their conjugates formed with e.g. toxins or radionuclides are useful for therapeutically targeting or detecting neovascularisation sites.

XX SQ Sequence 547 AA;

Query Match 6.9%; Score 97.5; DB 20; Length 547;

Best Local Similarity 21.0%; Pred. No. 1.1;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPRGRWLITCC-----APQPPPT-----TYSLCGT---KNIKVAKKV 75

DB 9 LWPACWTLVCCLLTFGVQOQEFLLRVEPNVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVILKSPDLLTYFCRASSTSG-AHVDASRLQHWEL-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRIILCSVYCNQSQTGSSNITVYGLPERVELAPLPW 128

QY 123 SKPVSELRAFTLQDRGAGPRVEMICQASSGSPPTNSLIGKQGVHLQORPCHQPANF 182

DB 129 -QPVGQ---NFTLR-----COVEGSPRTSLTVLLRWEELSRQPAVEEPAEV 173

QY 183 SELFSQTSQSD---WFQCQAANNANVQHSALTVPVPGDQKMDQGPLESPIALPY 236

DB 174 TATVLASRDDHGAPFSCTELDMQPQGLGL-FVNTSAPRQLRTFVLPVTPPRLVAPRF 230

RESULT 49

AAAB13036

ID AAAB13036 standard; Protein; 547 AA.

XX AC AAAB13036;

XX DT 19-DEC-2000 (first entry)

XX Human ICAM-R protein sequence.

XX Anti-human immunodeficiency virus; HIV; cytostatic; ICAM-R; ARDS; stroke; intercellular adhesion molecule; immunoglobulin heavy chain; septicæmia; inflammatory conditions; glomerulonephritis; arthritis; dermatosis; haemodialysis; leukapheresis; ulcerative colitis; Crohn's disease; necrotising enterocolitis; atherosclerosis; psoriasis; asthma; transplant rejection; diabetes; tumour.

XX Homo sapiens.

XX OS US6100383-A.

XX PD 08-AUG-2000.

XX PF 07-JUN-1995; 95US-0475680.

XX PR 05-AUG-1994; 94US-0286754.

XX PR 26-JAN-1993; 93WO-US00787.

XX PR 27-JAN-1992; 92US-0827689.

XX PR 26-MAY-1992; 92US-0889724.

XX PR 05-JUN-1992; 92US-0894061.

XX PR 22-JAN-1993; 93US-0009266.

XX PR 05-AUG-1993; 93US-0102852.

XX PA (ICOS-) ICOS CORP.

XX PI Gallatin WM, Vazeux R;

XX WPI; 2000-542449/49.

XX DR N-PSDB; AAA97090.

XX PT Hybrid fusion proteins comprising intercellular adhesion molecule or

PT its variants useful, for treating inflammatory conditions, Crohn's
 PT disease, atherosclerosis and diabetes -
 XX Claim 1; Figure 1; 109pp; English.

XX This invention relates to a hybrid fusion protein comprising an
 CC intercellular adhesion molecule (ICAM-R) amino acid fragment at its
 CC amino terminus and a constant domain of an immunoglobulin heavy chain at
 CC its carboxy terminus. ICAM-R polypeptides are useful for treating and
 CC monitoring inflammatory conditions such as adult respiratory distress
 CC syndrome, multiple organ injury syndrome secondary to septicemia or
 CC trauma, reperfusion injury of tissue, acute glomerulonephritis, reactive
 CC arthritis, dermatosis, stroke, thermal injury, haemodialysis,
 CC leukapheresis, ulcerative colitis, Crohn's disease, necrotising
 CC enterocolitis, granulocyte transfusion associated syndrome,
 CC atherosclerosis and cytokine induced toxicity. ICAM-R polypeptides are
 CC also useful for treating conditions resulting from a response of the
 CC specific immune system in a mammal e.g. psoriasis, organ/tissue
 CC transplant rejection and autoimmune diseases including Raynaud's
 CC syndrome, autoimmune thyroiditis, multiple sclerosis, rheumatoid
 CC arthritis, diabetes and lupus erythematosus. ICAM-R products and ICAM-R
 CC related products are also useful in monitoring and treating asthma,
 CC tumour growth and/or metastasis, and viral infection (e.g. HIV
 CC infection). Sequences AAA97090 and AAB13036 represent the human ICAM-R
 CC DNA and protein sequences. Sequences AAA97091-A97112 represent ICAM-R
 CC DNA fragments, PCR primers and probes, all used in the identification of
 CC the ICAM-R DNA sequence. AAA97113-A97123 and AAA97125-A97152 represent
 CC primers used in the production of humanised anti-ICAM-R antibody ICR-8.1,
 CC and fragments of the humanised antibody. Sequences AAA97124-A97128,
 CC AAA97132, AAA97144 represent ICR-8.1 sequences. Sequences AAA97153-A97176
 CC excluding AAA97155-A97156 represent primers used in the production of
 CC humanised anti-ICAM-R antibody ICR-1.1, and fragments of the humanised
 CC antibody. Sequences AAA97155-A97156 and AAB13047-B13048 represent murine
 CC ICR-1.1 sequences. DNA and peptide sequences used in the production of
 CC the chimeric protein of the invention include AAA97117-A97188 and
 CC AAB13050-B13051.

XX Sequence 547 AA;

Query Match 6.9%; Score 97.5; DB 21; Length 547;

Best Local Similarity 21.0%; Pred. No. 1.1;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPKGRWLVITCC-----APQPPPI-----TYSLCGT---KNIKVAKKV 75

DB 9 LWPRACWTLVCCLLTPGVQGFLLRVEPQNPVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVLTKSPDLLTYFCRASSTSG-AHVD SARLQMHWEI-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRILCSVYCNQSGITGSSNITVYGLPERVELAPLP 128

QY 123 SKPVSELRNFTLQDRAGRVEVMICQASSGSPITNSLIGKQGVHLOQRPCHQPNF 182

DB 129 -QPVGQ---NFTLR-----CQVEGSGPRTSLTVLLRWEELSLSQPAVEEPAEV 173

QY 183 SFIPQSQSD---WFCQANNANVQHSALTVPVPGDGKMDQWGPESLPILALPLY 236

DB 174 TATVLSRDDHGFSCRTELDMQPGGLT-FVNTSAPRLQRTFVTPPRLVAPRP 230

RESULT 50

AAV82435

ID AAV82435 standard; Protein; 547 AA.

XX AAV82435;

XX 28-JUN-2000 (first entry)

XX Human ICAM-R encoding cDNA SEQ ID NO:1.

XX Human; ICAM-R; chromosome 19; intracellular adhesion molecule receptor;
 KW CAM; ICAM-1; ICAM-2; humanised; antibody; mutagenic; chimeric; vulnary;
 KW nephropathic; antiarthritic; cerebroprotective; antiulcer; cytostatic;

KW antiarteriosclerotic; immunosuppressive; antidiabetic; neuroprotective;
 KW antithyroid; dermatologic; antiasthmatic; antiviral; antiinflammatory;
 KW anti-HIV; vasotrophic; antipsoriatic; immunomodulator; antirheumatic;
 KW cell adhesion mediator; inflammatory condition; immunisation;
 KW immune response.
 XX Homo sapiens.
 XX US6040176-A.
 XX 21-MAR-2000.
 XX 12-SEP-1996; 96US-0714017.
 XX 05-AUG-1994; 94US-0286754.
 XX 27-JAN-1992; 92US-0827689.
 XX 26-MAY-1992; 92US-0889724.
 XX 05-JUN-1992; 92US-0894061.
 XX 22-JAN-1993; 93US-0009266.
 XX 26-JAN-1993; 93WO-US00787.
 XX 05-AUG-1993; 93US-0102852.
 XX (ICOS-) ICOS CORP.

XX Gallatin WM, Vazeux R;

XX WPI; 2000-270138/23.

XX Novel monoclonal antibody directed against ICAM-R proteins useful for
 PT treating acute glomerulonephritis, ulcerative colitis, psoriasis,
 PT rheumatoid arthritis, diabetes, multiple sclerosis, asthma and viral
 PT infection -

PS Example 4; Fig 1; 117pp; English.

XX The present invention describes a monoclonal antibody (MAB) (I),
 CC produced by the hybridoma cell line 81K2F (ATCC HB 11692). Also described
 CC are: (1) a hybridoma cell line 81K2F; and (2) a MAB (II), that competes
 CC with (I) for binding to ICAM-R (intracellular adhesion molecule
 CC receptor) (III). (II) mimics the activity of natural binding proteins
 CC through which intercellular and intracellular activities of (III) are
 CC modulated. (II) is also used for modulating the immune responses. (I) is
 CC used for immunisation as well as for purifying (III). They are also
 CC useful in modulating the ligand/receptor binding biological activity
 CC involving (III) especially those effector functions of (III) involved in
 CC specific and non-specific immune system responses. Inflammatory
 CC conditions which may be treated or monitored with related products of
 CC (III) include conditions resulting from a response of the non-specific
 CC immune system in a mammal e.g. adult respiratory distress syndrome,
 CC multiple organ injury syndrome secondary to septicemia or trauma,
 CC reperfusion injury of tissue, acute glomerulonephritis, reactive
 CC arthritis, stroke, ulcerative colitis and atherosclerosis, and conditions
 CC resulting from a response of the specific immune system in a mammal, e.g.
 CC psoriasis, organ/tissue transplantation rejection, autoimmune diseases
 CC such as autoimmune thyroiditis, multiple sclerosis, rheumatoid arthritis,
 CC diabetes and lupus erythematosus. AAA08236 to AAA08334, and AAV82435 to
 CC AAV82451 represent sequences used in the exemplification of the present
 CC invention.

XX Sequence 547 AA;

Query Match

Best Local Similarity 21.0%; Score 97.5; DB 21; Length 547;

Matches 50; Conservative 41; Mismatches 92; Indels 55; Gaps 11;

QY 38 VFPKGRWLVITCC-----APQPPPI-----TYSLCGT---KNIKVAKKV 75

DB 9 LWPRACWTLVCCLLTPGVQGFLLRVEPQNPVLSAGSLFVNCSTDCPSSEKIALETS 68

QY 76 KTHEP-----ASFNLNVLTKSPDLLTYFCRASSTSG-AHVD SARLQMHWEI-----W 122

DB 69 LSKELVASGMGWAFAFNLSNVTGNSRILCSVYCNQSGITGSSNITVYGLPERVELAPLP 128

